

# THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,268 82nd YEAR

THURSDAY, APRIL 13, 1961

PRICE 2/-

## *Sailing Orders!*

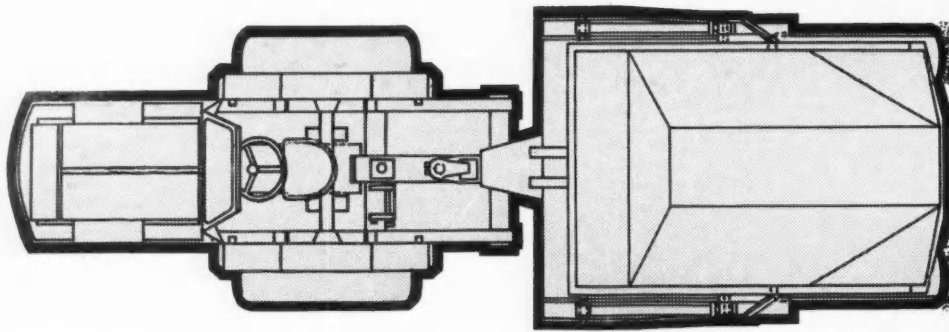
One of three 4-cu. yd. Winget-Koehring  
Concentric Zone Mixers being loaded  
at London Docks. They are destined  
to produce concrete for  
the construction of the  
**HIDOURO** Hydro-electric  
Project in Portugal.

**WINGET LTD., ROCHESTER, KENT**

Loaded by P.L.A. at London Dock  
on M.V. Lucian (Ellerman Line  
Service to Oporto)  
Shipment arranged by  
Messrs. Houlder Bros.

**Winget**

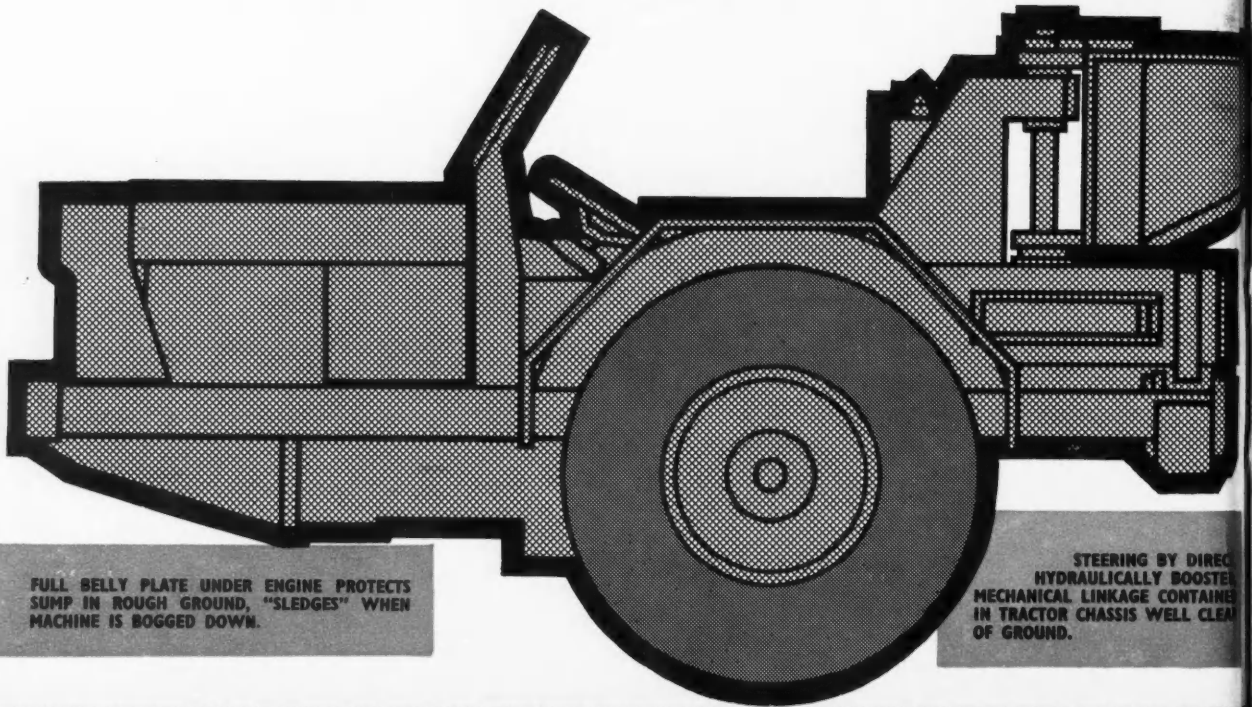




**Ge**

LOAD APPLIED DIRECTLY OVER TRACTOR AXLE BEARINGS. STRONGLY BUILT CHASSIS AROUND TRACTOR TO PROTECT ENGINE AND HYDRAULIC SUMP.

MASSIVELY CONSTRUCTED KING POST AND WISHBONE ASSEMBLY. LARGE BRONZE BUSHES AT ALL ARTICULATION POINTS. GOOSENECK USED AS HYDRAULIC RESERVOIR.

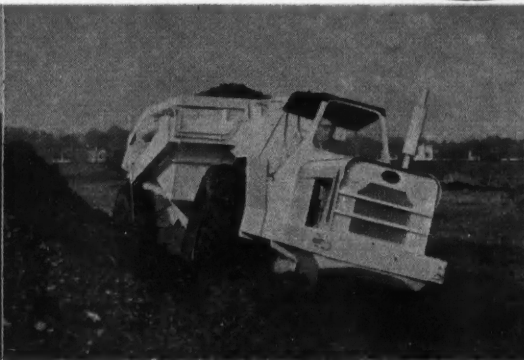


FULL BELLY PLATE UNDER ENGINE PROTECTS SUMP IN ROUGH GROUND, "SLEDGES" WHEN MACHINE IS BOGGED DOWN.

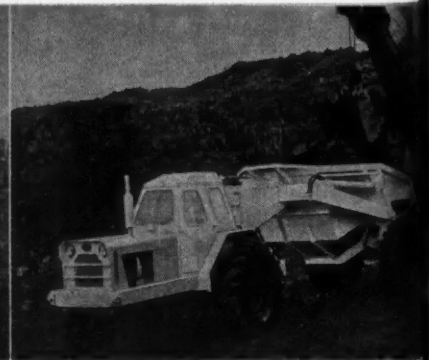
STEERING BY DIRECT, HYDRAULICALLY BOOSTED MECHANICAL LINKAGE CONTAINED IN TRACTOR CHASSIS WELL CLEAR OF GROUND.



Tractor unit at 90° to the body when tipping. 180° lock-to-lock power steering permits a full turn between kerbs 23 ft. apart.



Tractor unit articulating independently at 15° from the body.



Tractor unit fitted with totally enclosed cab.

**with the CAMILL**

**E. BOYDELL & CO. LTD. EAGLE WORKS, OLD TRAFFORD, MANCHESTER 11**

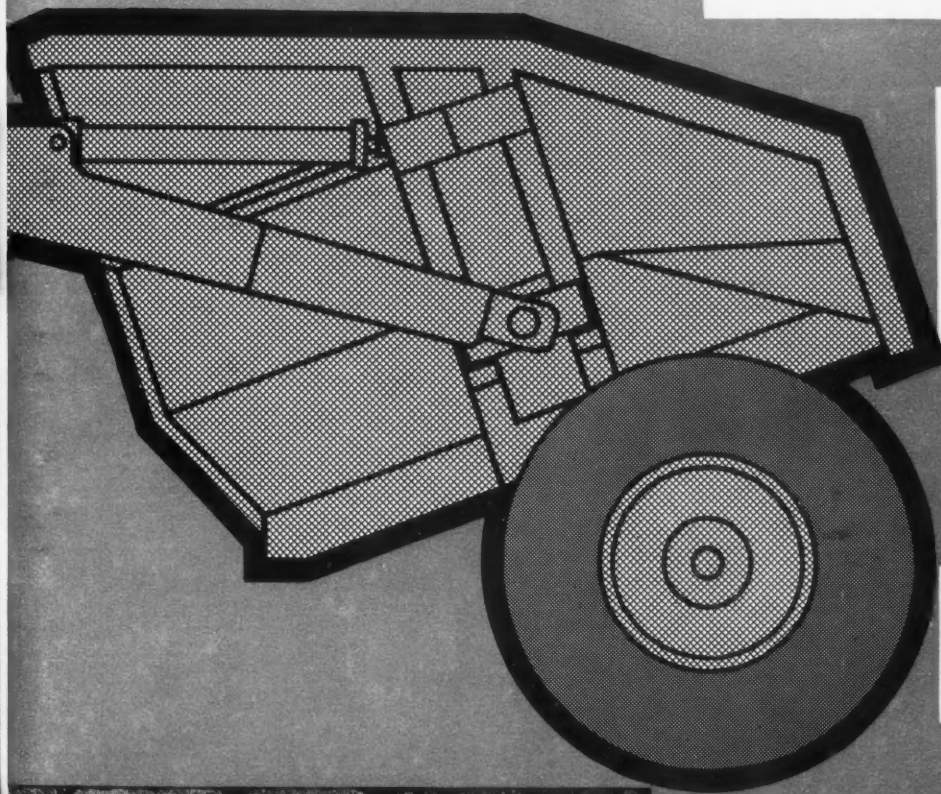
Telephone: TRAfford Park 1641



# on the right track

SHORT, EFFECTIVE RAMS, WELL CLEAR OF GROUND  
—PRODUCE POWERFUL TIPPING ACTION IN CON-  
JUNCTION WITH INDEPENDENT WHEEL BRAKES.

EXOSKELETAL BODY CONSTRUCTION GIVES MAXIMUM  
GROUND CLEARANCE AND FACILITATES THE USE OF  
RAMS WITH ONLY 30" STROKE TO ACHIEVE RAPID  
TIPPING OF 20,000 LBS. PAYLOAD.



THE 7 CU. YD., HEAVILY REINFORCED  
BODY TAKES THE TOUGHEST PUN-  
ISHMENT AND THE FLAT FLOOR,  
WITHOUT A SCOW MOUTH, GIVES  
CLEAN, INSTANT 55° TIP OF THE  
20,000 LB. PAYLOAD. AN AUTOMA-  
TICALLY OPENING TAILGATE, FIXED  
TO THE TRUNNION FRAME, IS AVAIL-  
ABLE FOR USE WITH FREE-FLOWING  
MATERIALS.

REAR WHEEL PARTLY RUNNING IN  
FRONT WHEEL TRACK. WHEELS  
INTERCHANGEABLE FRONT AND REAR;  
HYDRAULIC DISC BRAKES ON ALL  
FOUR WHEELS.



"Humping" out of mud with the aid of the tipping rams and  
alternative use of front and rear wheel brakes. The pulling  
power of this motion is approximately 8½ tons.

The CAMILL reaches a new, matchless stan-  
dard in dumper design, construction and  
performance. Powerful and tough, highly  
manoeuvrable in the severest ground con-  
ditions, it leads the field on every point: control,  
tracking, tipping, clearance, speed and con-  
centrated high output. The CAMILL is the  
dumper for profitable operation in the long-  
and tough-run.

## DUMPER

### Muir-Hill

Registered Trade Mark of E. Boydell & Co. Ltd.  
Distributors of

## CAMILL

DUMPERS





The Bulk Cement Silo is a BENFORD '635', coupled to and feeding a BENFORD 18/12 Reversing Drum Mixer, which in turn is feeding the BENFORD 35 cwt. Dumper. The Silo is "tailor made" to suit the Mixer, and the Dumper likewise to suit the Mixer's output.

Matched Plant like this must pay!

You get maximum output from the minimum of Plant with no waste anywhere of time, labour or machines.

*The Site? Another of Britain's Motorways in the making somewhere in the Midlands.*

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**For Progress in Design  
and Better Value!**

BENFORD LTD.

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**BENFORD**



DIESEL DUMPERS



SILOS & REVERSING DRUM MIXERS



TILTING DRUM MIXERS



POWER BARROW





# PARKER



## NON-TILT

*with*  
**Weigh-Batch Equipment**

Today's concrete mixing demands accuracy and output. The Non-Tilt is the mixer for fast, continuous supplies of well-mixed concrete. Batch weighing enables modern specifications to be matched exactly—with Power-scoop loading one man can feed to capacity.

The Parker Non-Tilt is made with capacities of 10 cu. ft. in—7 cu. ft. out or 14 cu. ft. in—10 cu. ft. out on 4 metal or pneumatic-tyred wheels. Also 10 cu. ft. in—7 cu. ft. out fast-towing type. Petrol, diesel, or electric motor. Immediate delivery.

The chain of Parker Service Depots looks after users' interests over the country.

*and loading with...*  
**PARKER  
POWER SCOOP**

For use with Parker Non-Tilt, Plowmixer or Speedia mixers, the power scoop will shift up to 300 lbs. at a time, and is controlled very simply by push button.



FREDERICK **PARKER** LIMITED

VIADUCT WORKS, LEICESTER

PHONES: LEICESTER 62531 (10 LINES)

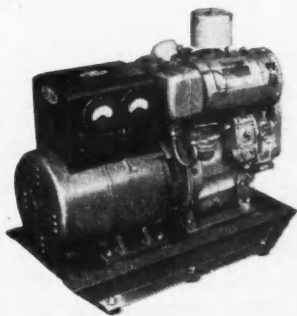
LONDON: STAFFORD HOUSE, NORFOLK STREET, W.C.2

Depots at London, Cardiff, Sedgley (near Wolverhampton), Leeds, and Glasgow

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## GENERATING SETS

Sets ranging from 500 Watts up to 7½ KVA as standard, single or three phase. Larger sets against order.



For Lighting and  
Hand Tools  
such as  
Hammers and Breakers,  
Saws, Drills, Planers, Sanders, etc.

Manufactured in various sizes. 115/230 Volts, Single Phase Generators are normally available from Stock.

**Petrol or Diesel — Mobile or Static Chassis.**

Sets of 3 KVA capacity and above can be supplied with special welding transformers.

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TRACTORS

TRAXCAVATORS

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SHOVELS

COMPRESSORS

DUMPERS

MIXERS

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*When you next  
require any plant  
why not contact us  
and be sure of  
first-class machines  
with experienced  
operators backed by  
a highly efficient  
and well-equipped  
maintenance service.*

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**The hire service  
that never lets  
you down**

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OF CAMBERWELL

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## GK-23

### NEW KERN PRECISION ENGINEER'S LEVEL

This **NEW KERN** Level has a telescope magnification of x30 with coarse and fine focussing, and will resolve .01ft. at 900ft.

This **NEW KERN** Level has an internal coincidence reading bubble, read inside the main telescope, and is capable of levelling to an accuracy of  $\frac{1}{8}$ " in 2 miles.

This **NEW KERN** Level is compact and light in weight and though the quality is unsurpassable, the price is economical.

This **NEW KERN** Level is available from :-

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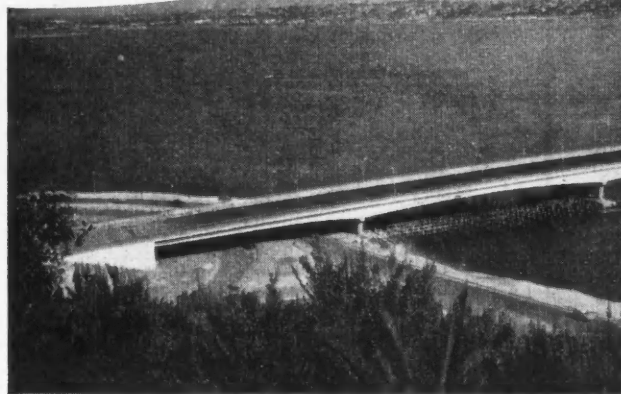




BY APPOINTMENT TO HER MAJESTY THE QUEEN  
MANUFACTURERS OF CONCRETE BLOCK AND  
MIXING MACHINERY

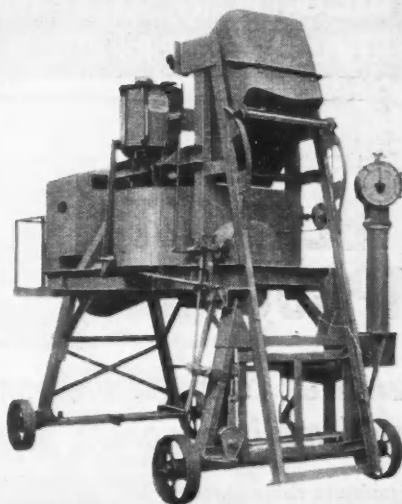
# CUMFLOW

## Way over down under!



### More than good enough for the wonderful Perth bridge

The prestressed concrete bridge at Perth, Australia, ranks among the World's largest. The 320 ft. central span, probably the longest of its kind, made vital the need for flawless concrete—that's why the Cumflow system was used; our Standard Contractors' models weigh batched and mixed concrete for the whole vast structure. A crushing strength of 6,500 p.s.i. at 28 days was necessary in the precast units, but the irrepressible Cumflows topped this with an average of 7,800 p.s.i. and not one of 1,200 cubes tested fell short of specification! The Cumflow system disciplines every particle into a perfect, maximum strength mix in only 30 seconds, facilitating a 40 batch hourly output. And the Cumflow, ideal for drier-mixed prestressed concretes, is a great cement saver.



# LINER CUMFLOW

**THE WORLD'S BEST CONCRETE MIXER**

Post this coupon for full details of CUMFLOW Mixers.  
(PRACTICAL HIRE PURCHASE FACILITIES ARE AVAILABLE).

Name \_\_\_\_\_

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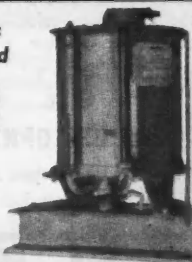
**THE LINER CONCRETE MACHINERY CO. LTD**

64 PARK RD., GATESHEAD. Phone: 72501 Grams: 'Liner, Gateshead'.  
London Offices and Showrooms: Lexden Road, Acton, W.3.

Above: Contractors' Portable Model (size 10CT, 10-14 cub. ft. input capacity) as used on the Perth bridge project. The Cumflow is made in 6 sizes with input capacities ranging from 2 cub. ft. to 36-40 cub. ft. Batch weighers and mechanical shovels are optional extras.

Only Liner mixers  
have the patented  
**INVARAC**  
**WATER TANK**  
for positive  
water metering

Once set it will  
discharge the same  
volume every time.

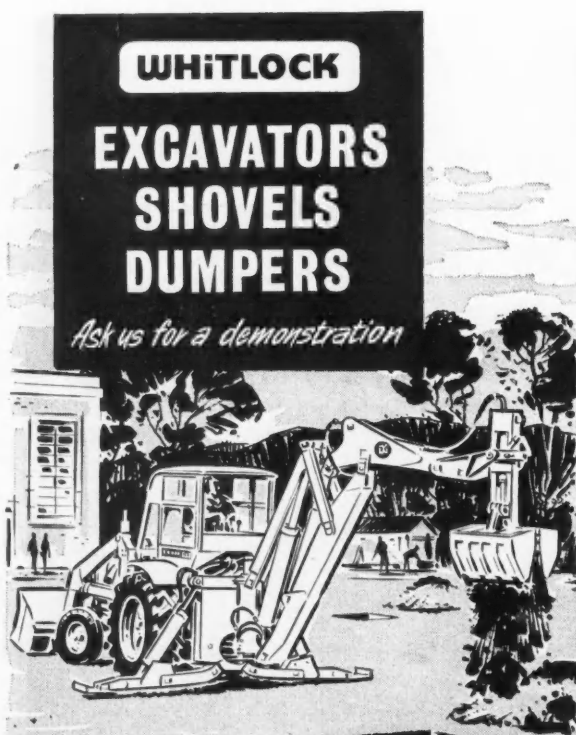




**WHITLOCK**

**EXCAVATORS  
SHOVELS  
DUMPERS**

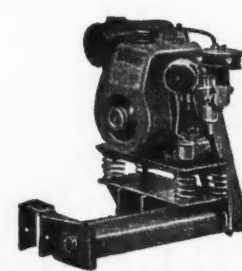
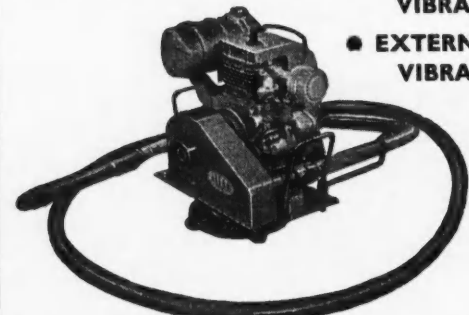
*Ask us for a demonstration*



*Essex Distributors*  
**SYMES (PLANT SALES) LTD**  
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**ALLAM** HIRE FROM THE MAKER

- VIBRATING TAMPERS
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HIRE WITH OPTION TO PURCHASE  
**ALLAM MACHINERY HIRE LTD.**  
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BCL Blanket Dampcourse being laid in position before the concrete is placed. (House under construction by Hampton House Developments Ltd.)

**BCL**

**BLANKET  
DAMPCOURSE**

polythene film

**—The answer to moisture penetration problems in concrete house-rafts**

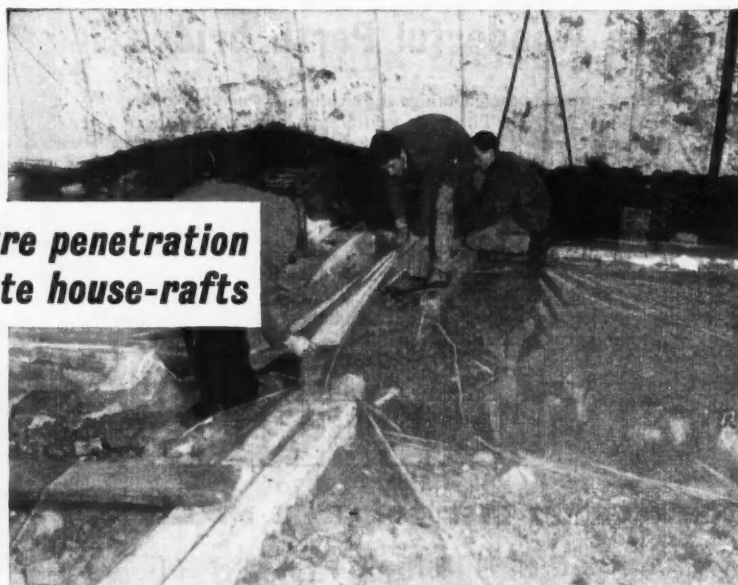
- \* prevents moisture rising through the raft into the house
- \* prevents water absorption by the concrete, removing the danger of the raft being damaged by frost or sulphate
- \* cheap, tough, light in weight and easy to handle

BCL Blanket Dampcourse is backed by a comprehensive technical service. British Cellophane Limited—largest film manufacturers in the Commonwealth—have a fund of specialised knowledge to put at your disposal. We invite you to fill in the coupon and post it to us.



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LIMITED**

PLASTIC FILMS DIVISION  
Henrietta House, 9 Henrietta Place, London, W.1



To: British Cellophane Limited, Plastic Films Division,  
Henrietta House, 9 Henrietta Place, London, W.1  
Please send me, free of charge and without obligation, your booklet  
'BCL Blanket Dampcourse'

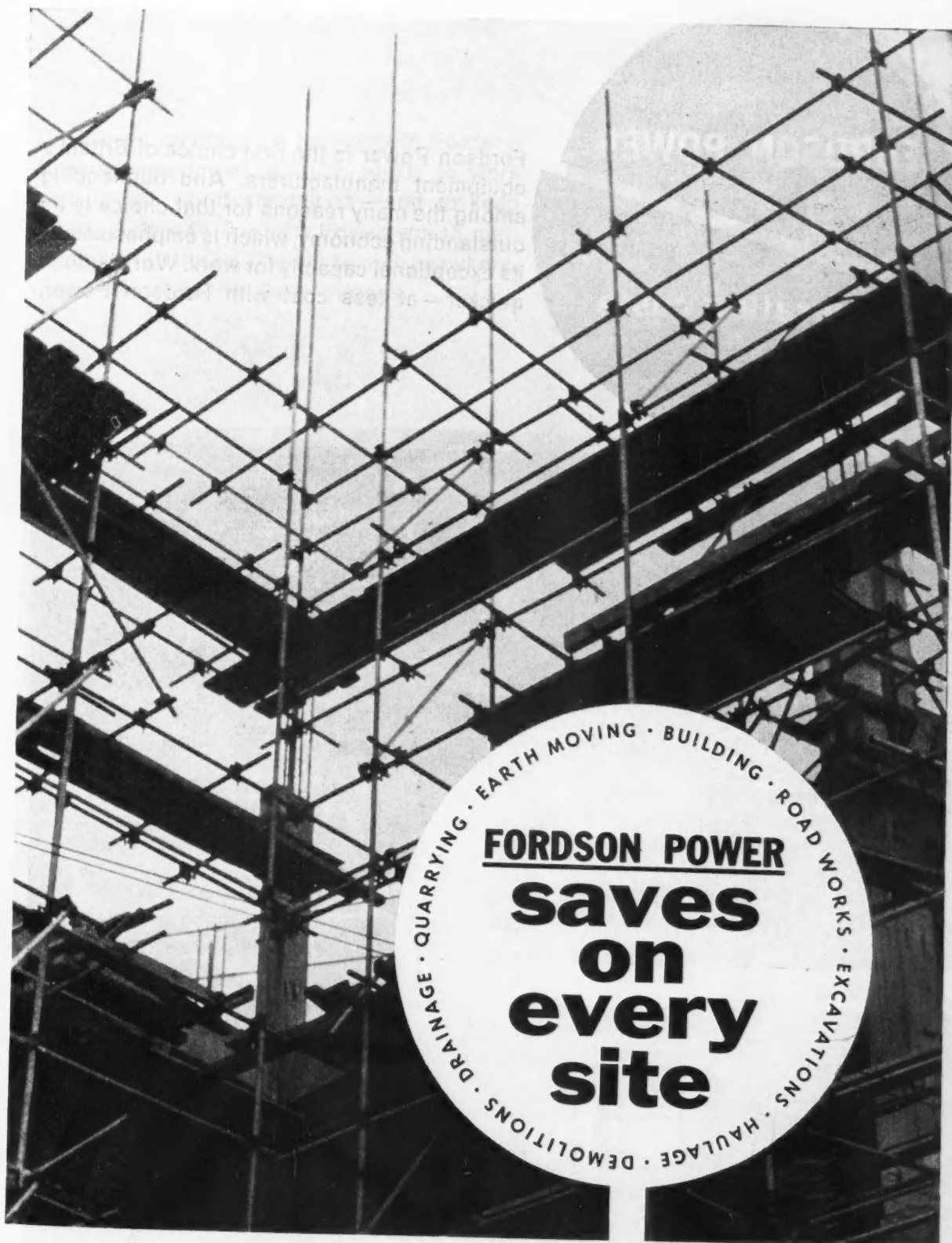
Please ask your representative to call

Name

Address

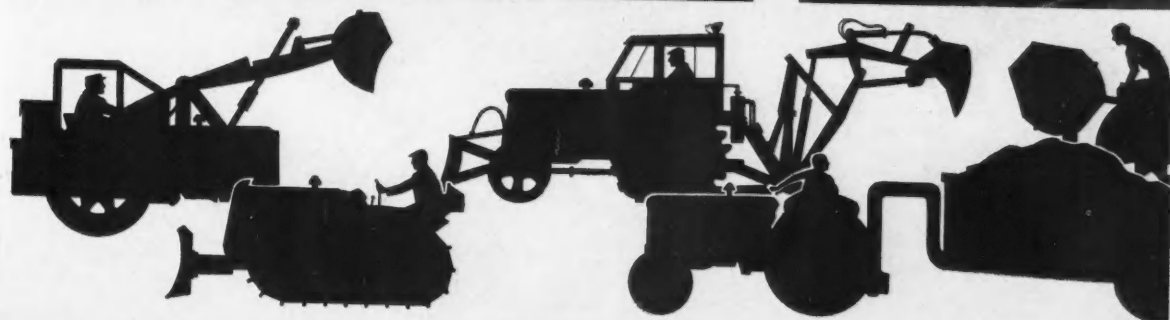
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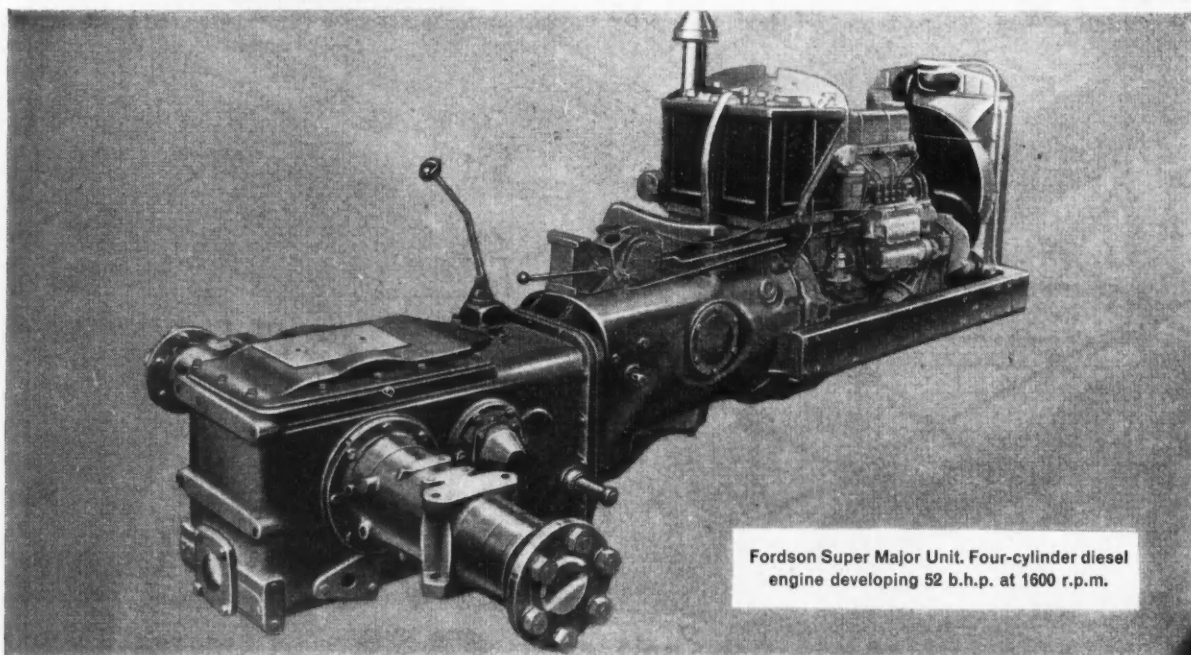
**FORDSON POWER**  
**saves**  
**on**  
**every**  
**site**



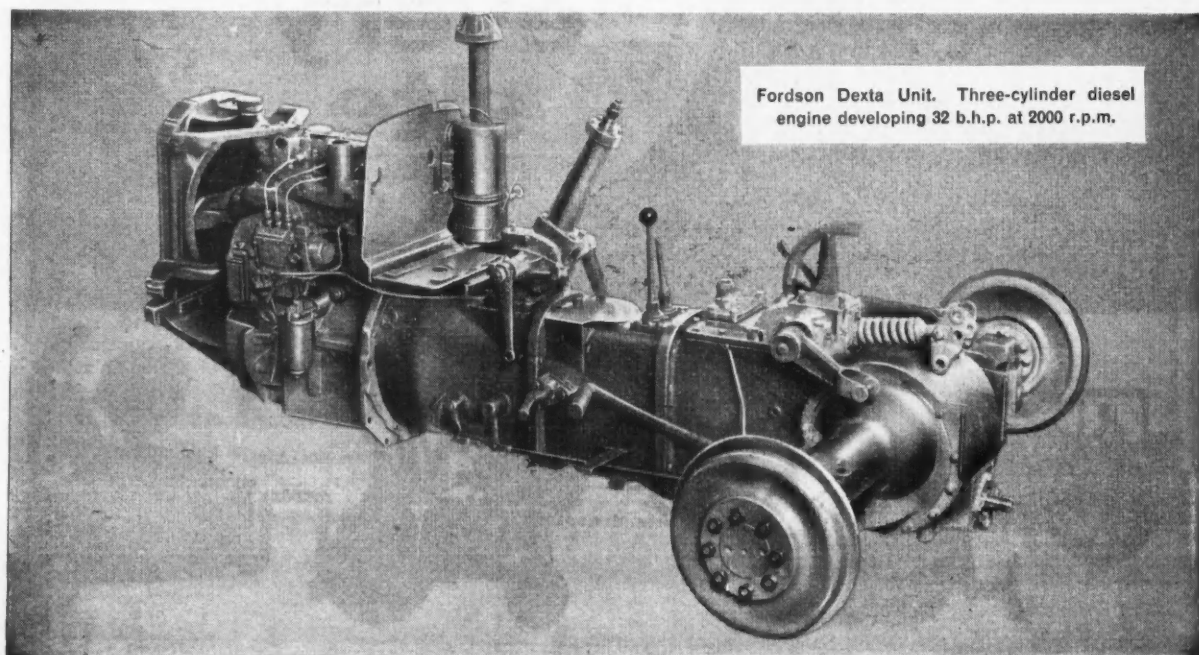


# FORDSON POWER CUTS operating costs

Fordson Power is the first choice of Britain's equipment manufacturers. And outstanding among the many reasons for that choice is its outstanding economy, which is emphasised by its exceptional capacity for work. Work is done quicker—at less cost with Fordson Power.



Fordson Super Major Unit. Four-cylinder diesel engine developing 52 b.h.p. at 1600 r.p.m.



Fordson Dexta Unit. Three-cylinder diesel engine developing 32 b.h.p. at 2000 r.p.m.



There's an outstanding reliability in Fordson powered equipment, a tough ability to work hard in the worst conditions—and to keep going. And with Fordson Power you're sure not only of swift and efficient service anywhere, but of service at low, fixed charges.



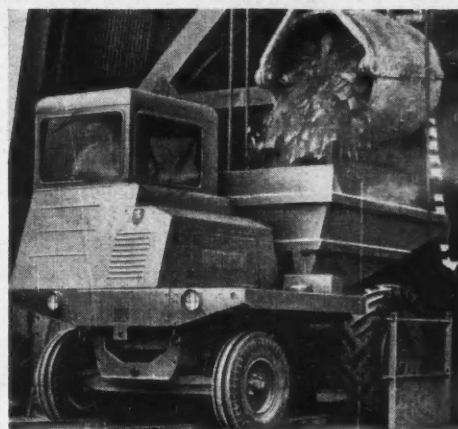
Four-wheel drive Bray Loader



Muir Hill Dumper



Weatherhill Shovel



Aveling Barford Dumper



J.C.B.4 Excavator/Shovel

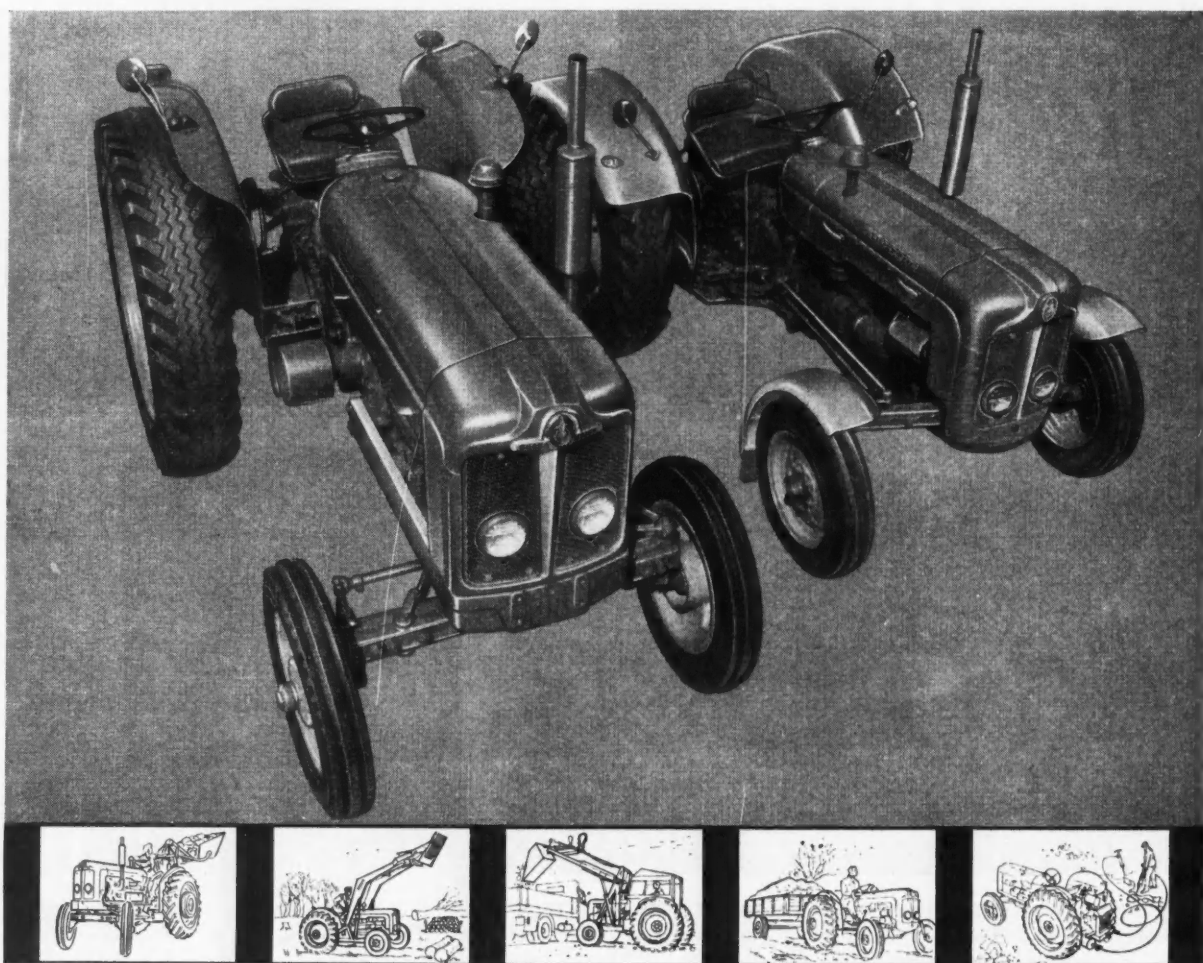


**FORDSON POWER**

**CUTS**

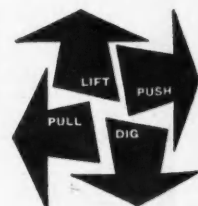
**idle time**

Fordson Power is available in an infinite variety of specialised forms, but there's a place, too, on every site for a Fordson industrial tractor. There's no more versatile piece of plant, nor a more hardworking unit. Take full advantage of the many attachments available and your Fordson tractor (52 bhp Fordson Super Major or 32 bhp Fordson Dexta) will have a utilisation factor nothing else will equal. Right round the clock it will speed the job, and save plant and running costs in doing it.



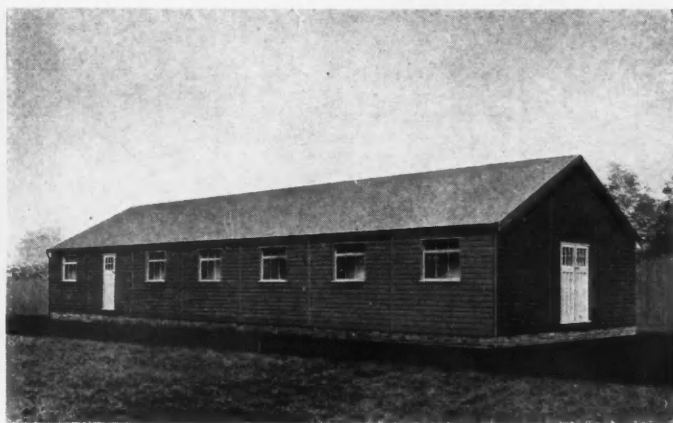
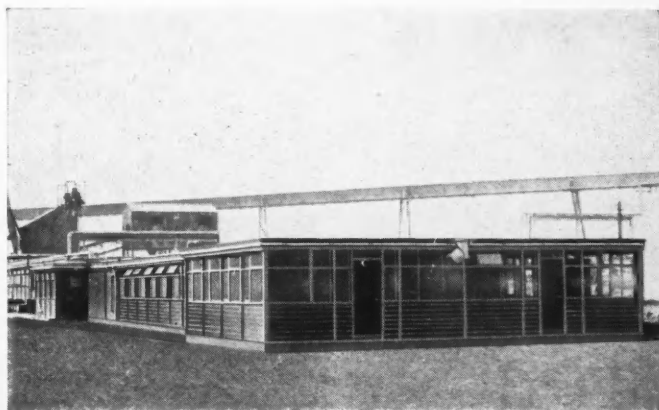
**FORDSON**

INDUSTRIAL SALES DEPARTMENT

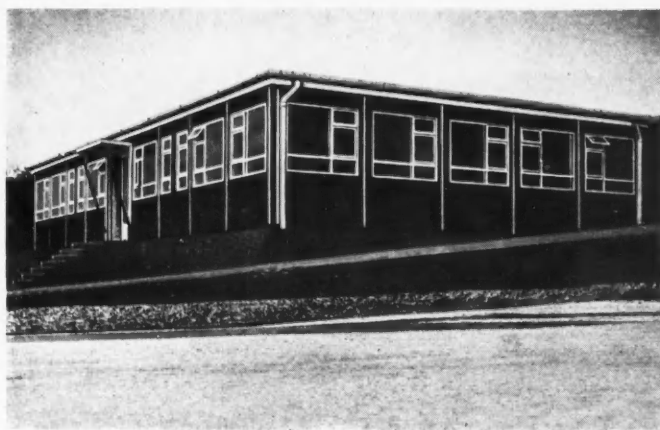


TRACTOR DIVISION FORD MOTOR COMPANY LIMITED DAGENHAM ESSEX





## The Better Built Portable Timber Buildings



These three illustrations of Hardun's Portable Timber Buildings are only a small selection of the vast range we are now producing in Cedar, exterior grade plywood and softwoods. The selection ranges from Standard Site Offices to Architect Designed Buildings.

As it would be necessary for us to use all the space in this publication to illustrate the complete range of Hardun's Buildings, we invite you to write for our very comprehensive and colourful catalogue which is available free on request.

**HARDUN & SONS LTD.**

**HORTON ROAD, WEST DRAYTON, MIDDX.**

**Tel: West Drayton 3088-9 3761-2**



*The*

**WHITLOCK**

**DIN  
DU**



**COMPLETE TURN IN**

**WHITLOCK BROS. LTD. GREAT YELDHAM**

**WHITLOCK ALSO PROVIDE A COMPLETE RANGE**



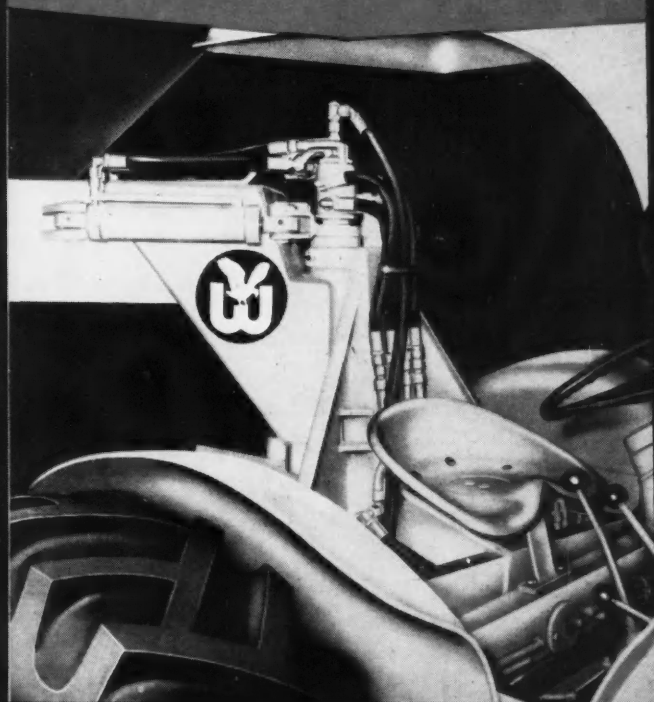
# KUM M PER 70



**13 ft RADIUS**

## Inside the Cab

*Note the conveniently placed controls.*



**10 TON LOADS  
FOR 10/-A DAY**

**COST OF FUEL**  
*and note these features*

- ★ POWERFUL TRACTION
- ★ HYDRAULIC STEERING
- ★ ARTICULATED FRAME
- ★ REINFORCED STEEL BODY
- ★ FAST CONTROLLED TIPPING
- ★ POWERFUL AIRBRAKES
- ★ HEAVY EARTHMOVER TYRES
- ★ HIGH GROUND CLEARANCE

**ESSEX Tel. GT. YELDHAM 305 (8 lines)**

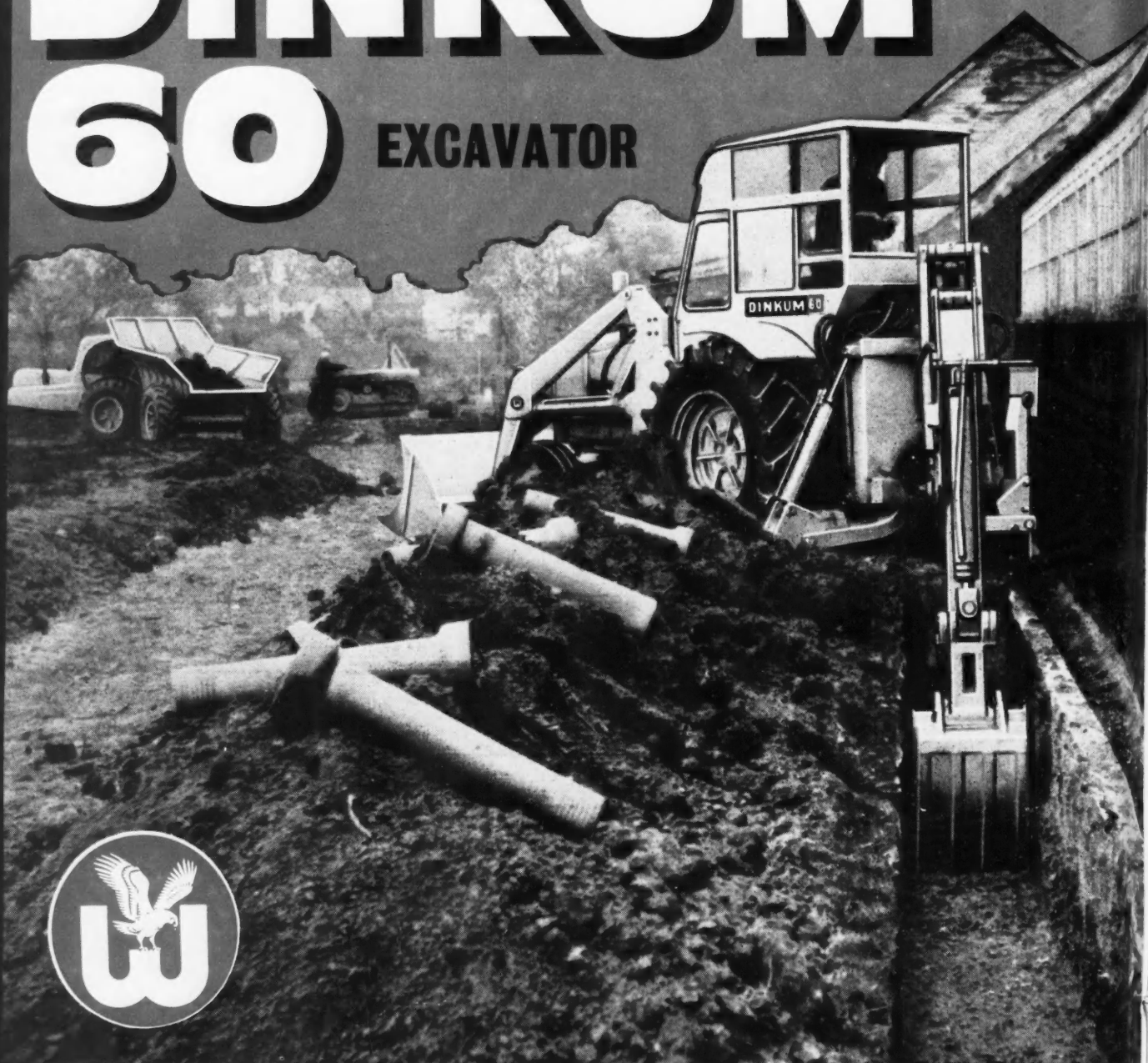
**OF HYDRAULIC EXCAVATORS AND SHOVELS**



**WHERE THERE'S A WALL...**  
**THERE'S A WAY...** *with a*

# **DINKUM**

## **60 EXCAVATOR**



Main Distributors for  
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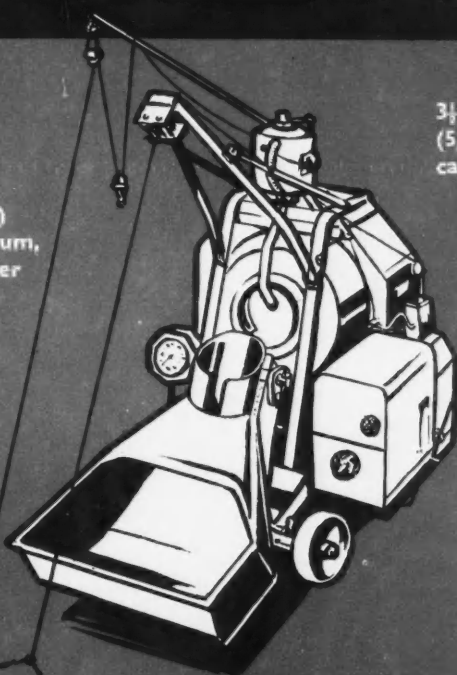
**ADW**



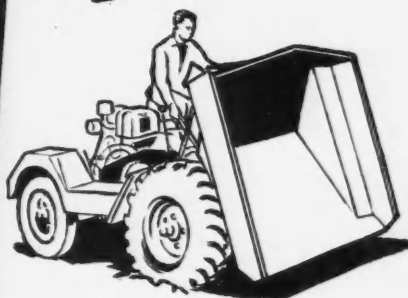
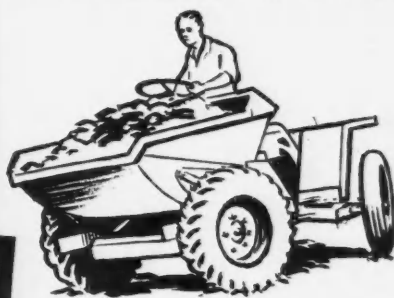
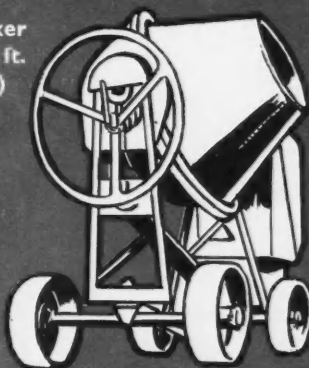
**Recipe for successful contracting**

# Winget **MIX WELL &** **MOORE'S** **SERVE QUICKLY**

**14 NT/R**  
(21/14 cu. ft.)  
reversing drum,  
non-tilt Mixer  
with batch  
weigher and  
drag feeder.



**3 1/2 T Mixer**  
(5/3 1/2 cu. ft.  
capacity)



**Winget Muir-Hill 'Red Devils':**  
the 2S 15 cwt. and the 3S 22 1/2 cwt.  
Site Dumpers.



**2 T Mixer**  
(3/2 cu. ft. capacity)

**COMPLETE**  
**Winget**  
**SALES &**  
**SERVICE IN**  
**LONDON**

## **MOORE'S PLANT LTD**

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**TOTTENHAM 0401**  
**(10 lines)**





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 **DUMPERS, EXCAVATORS,  
4 HYDRAULIC EXCAVATORS  
AND TRACTOR SHOVELS**

*a comprehensive fleet of Civil Engineering Plant*  
-and now **FORK LIFT TRUCKS**





FROM

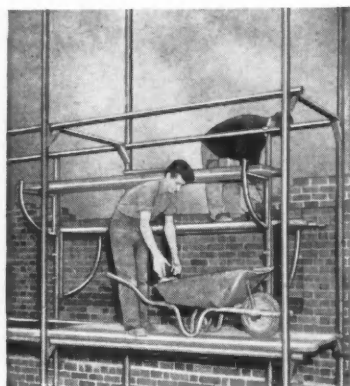
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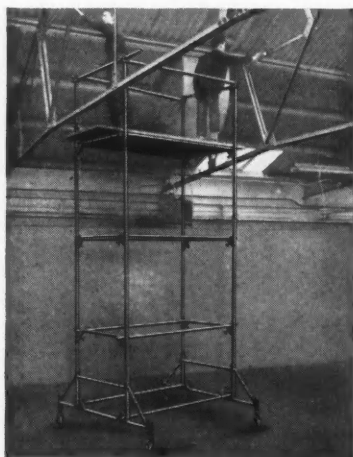
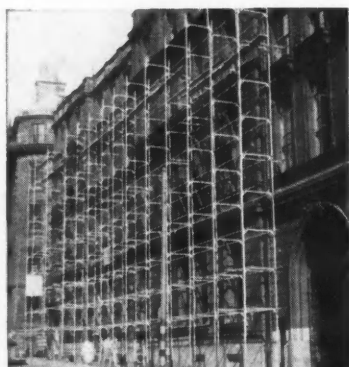
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 BIRMINGHAM Tel: Shirley 3522  
 BRECON Tel: 330  
 CARDIFF Tel: 71354/5  
 DARLINGTON Tel: 3258  
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 DISS, NORFOLK Tel: Diss 2688  
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'Robel' Scaffolding is right because it is designed to meet every requirement of the constructional industries — not the least of these requirements being adaptability! From the speed and safety of the basic unit frame system — to mobile towers, stage bracket system—and trussed ledgers for gap spanning structures, 'Robel' uses the same standard components.

Don't get involved in another scaffolding problem — drop us a line and we will **SHOW** you how right 'Robel' is!

### DAVID ROBERTS & COMPANY (ENGINEERS) LTD.

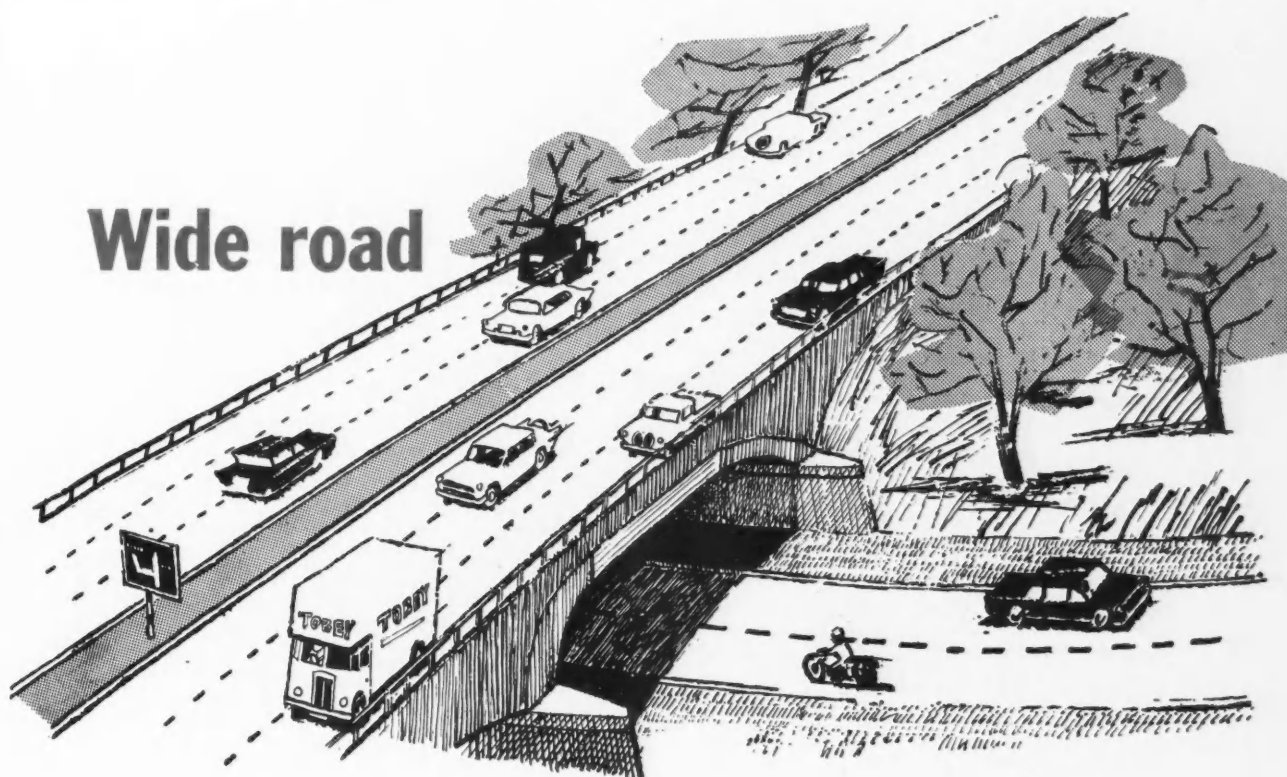
Albert St., OLDBURY, BIRMINGHAM  
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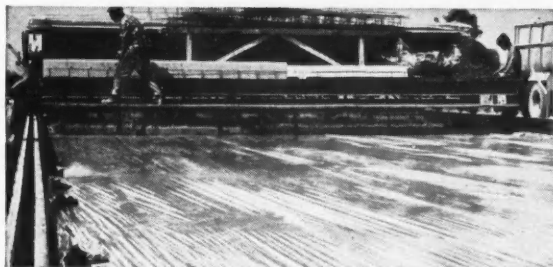




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Contractors: The Cubitts-Fitzpatrick-Shand consortium.



### 'Visqueen' saves time on service road

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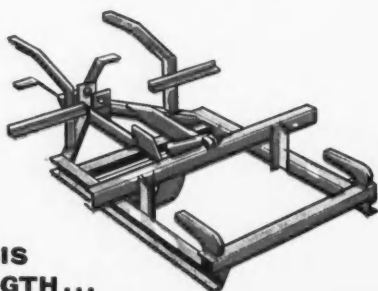


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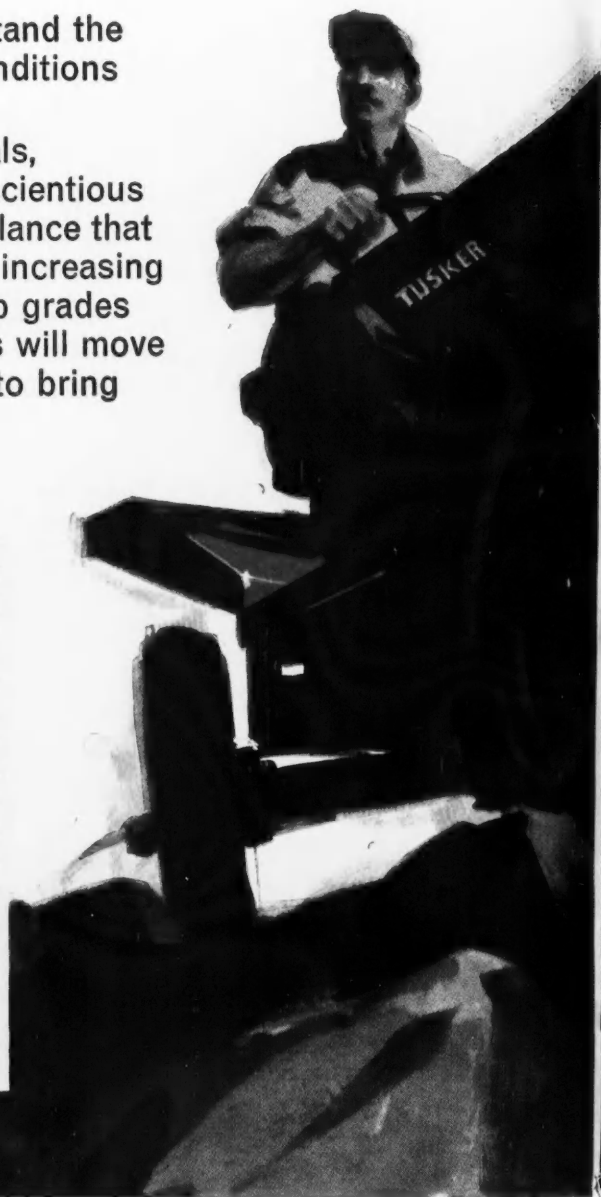
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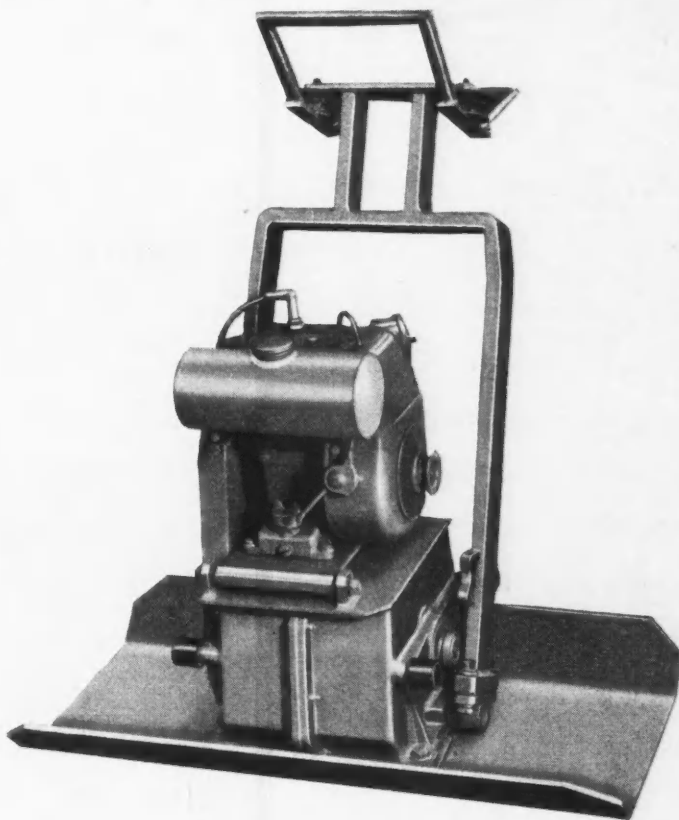
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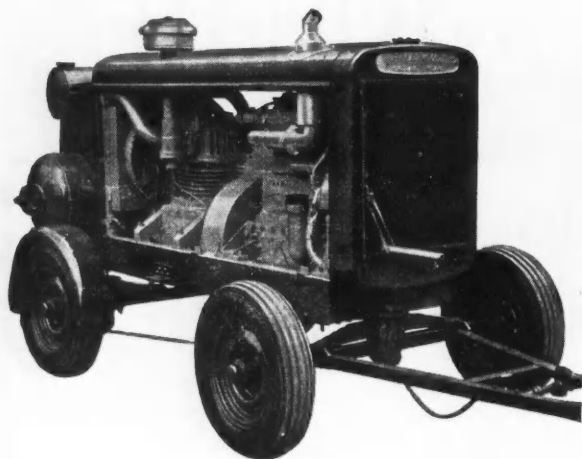
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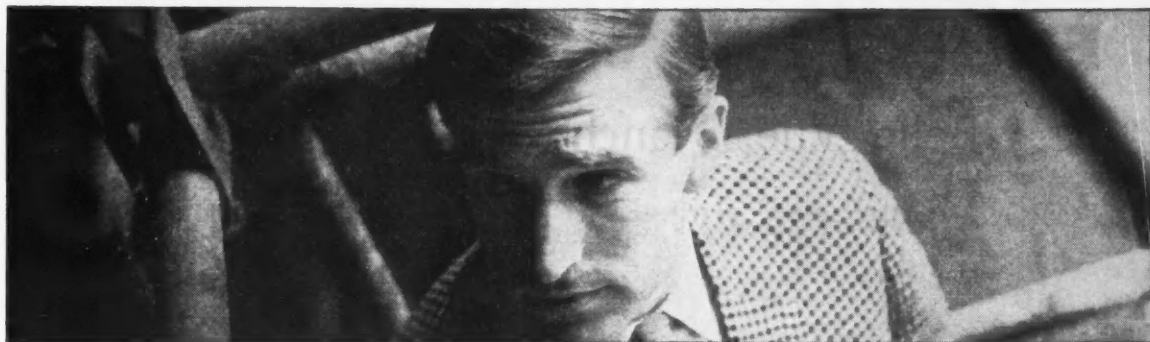
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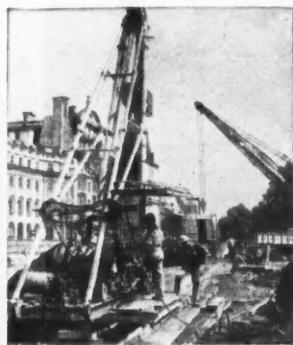
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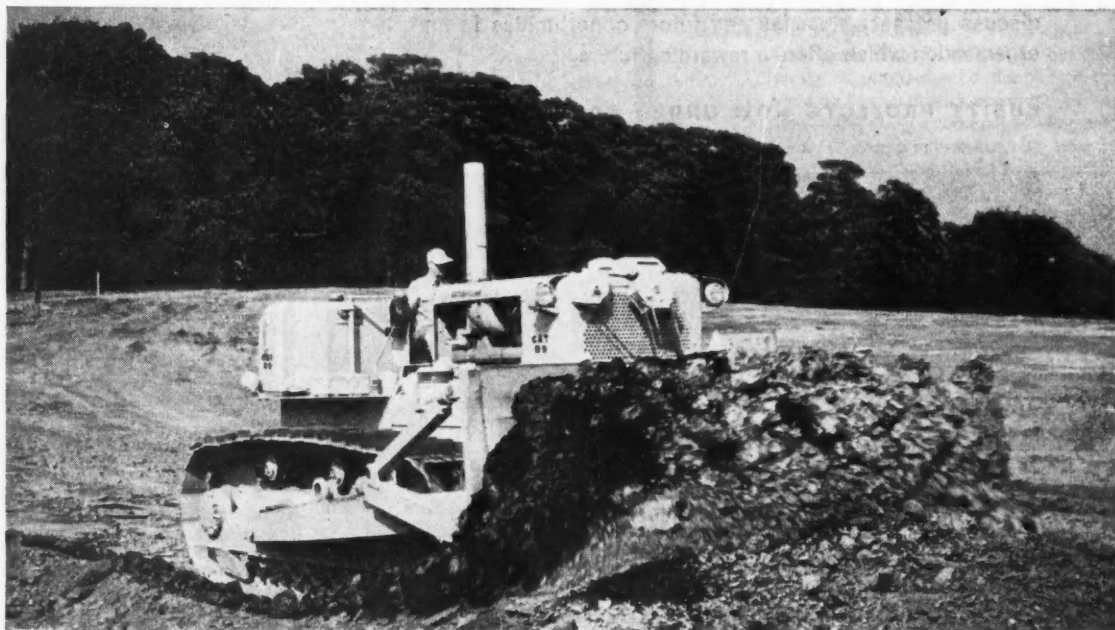
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\* heaped capacity at 3:1 is 16 yds., at 1:1 slope 20 yds.

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Like the widely used 24 yd. "Twin" this new Euclid has a separate Torqmatic Drive and power train for each axle. It self-loads in practically any scraper material and with a pusher is a big producer on even the toughest jobs. There's plenty of power and traction to pick up a heaped load in a hurry.

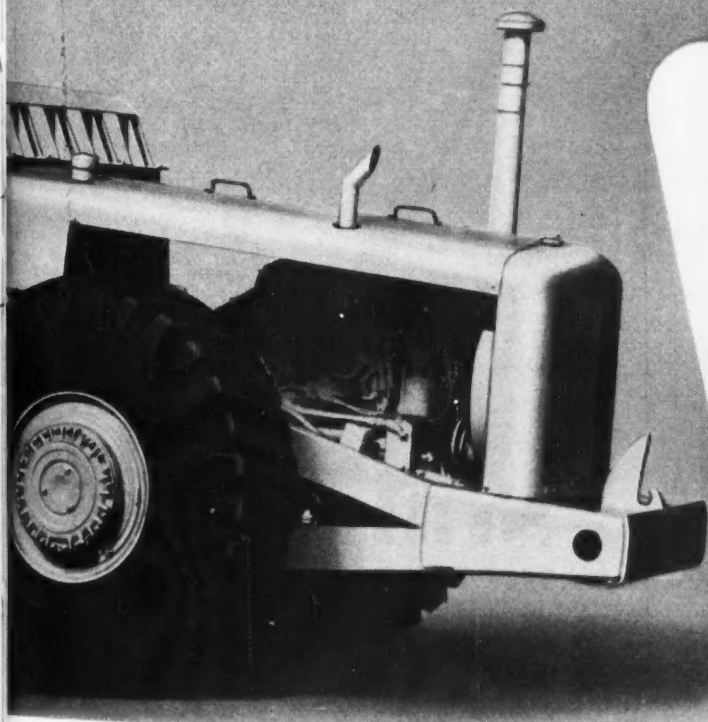
The TS-14 works on grades and under adverse job conditions that stall other scrapers. Its ability to do a wide range of work — without pusher assistance — makes it the most versatile scraper in its class. Get the facts and figures from your Euclid dealer.

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# in this 14 yd.\* scraper!



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**2 engines—280 total h.p.**

**all-wheel drive**

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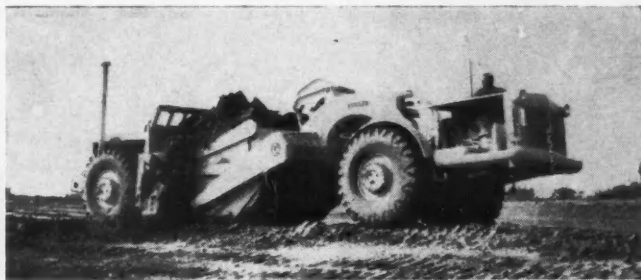
**Converter lock-up**

**20 yds. heaped  
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All-wheel drive and 280 total horsepower enable the TS-14 to get heaped loads without pusher assistance . . . make it a one-man earthmoving spread with more versatility than any other scraper in its class. Low wide bowl and four-section cutting edge speed loading and cut cycle time . . . blade sections are identical, adjustable and reversible.



The TS-14 works independently of other equipment . . . in the cut and on the fill . . . has the power and traction to self-load fast and work under adverse grade and job conditions that stop single engine scrapers. Its versatility and work-ability make this new "Euc" a top performer for low cost dirt moving on any scraper job . . . big yardage projects as well as close quarter work where concentration of equipment isn't practical.



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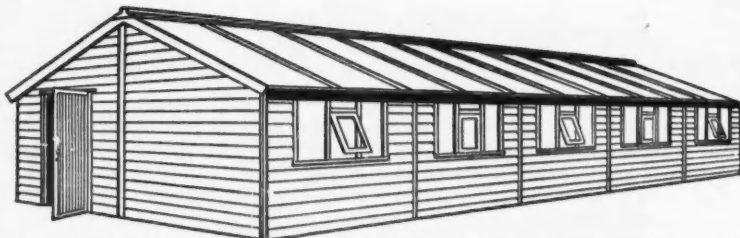
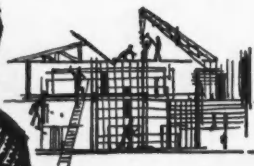
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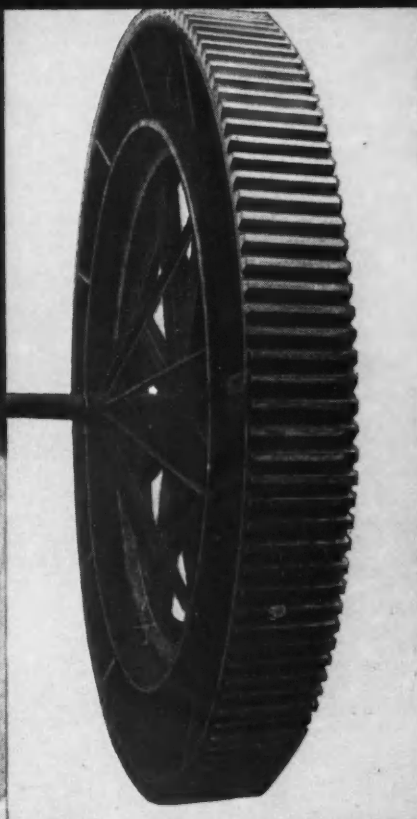
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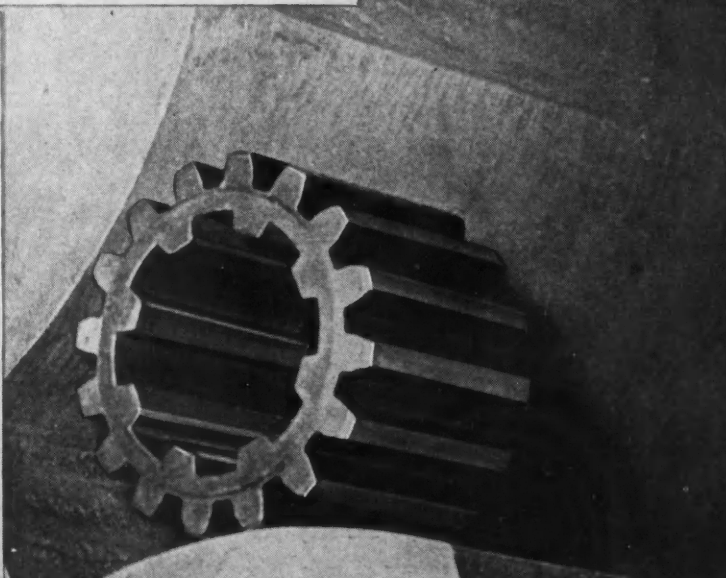
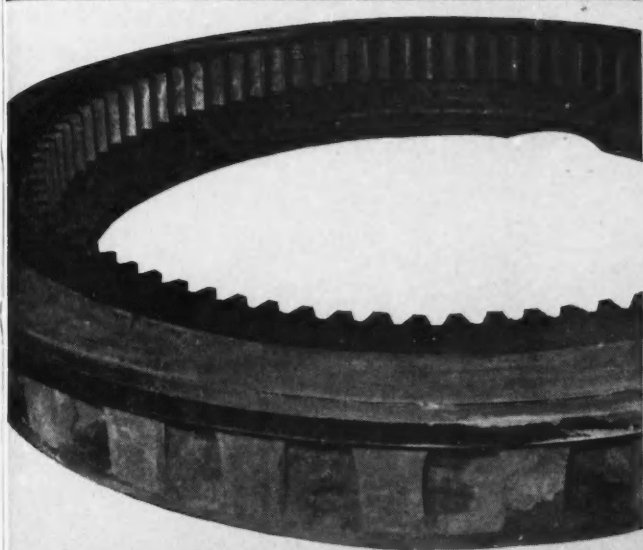
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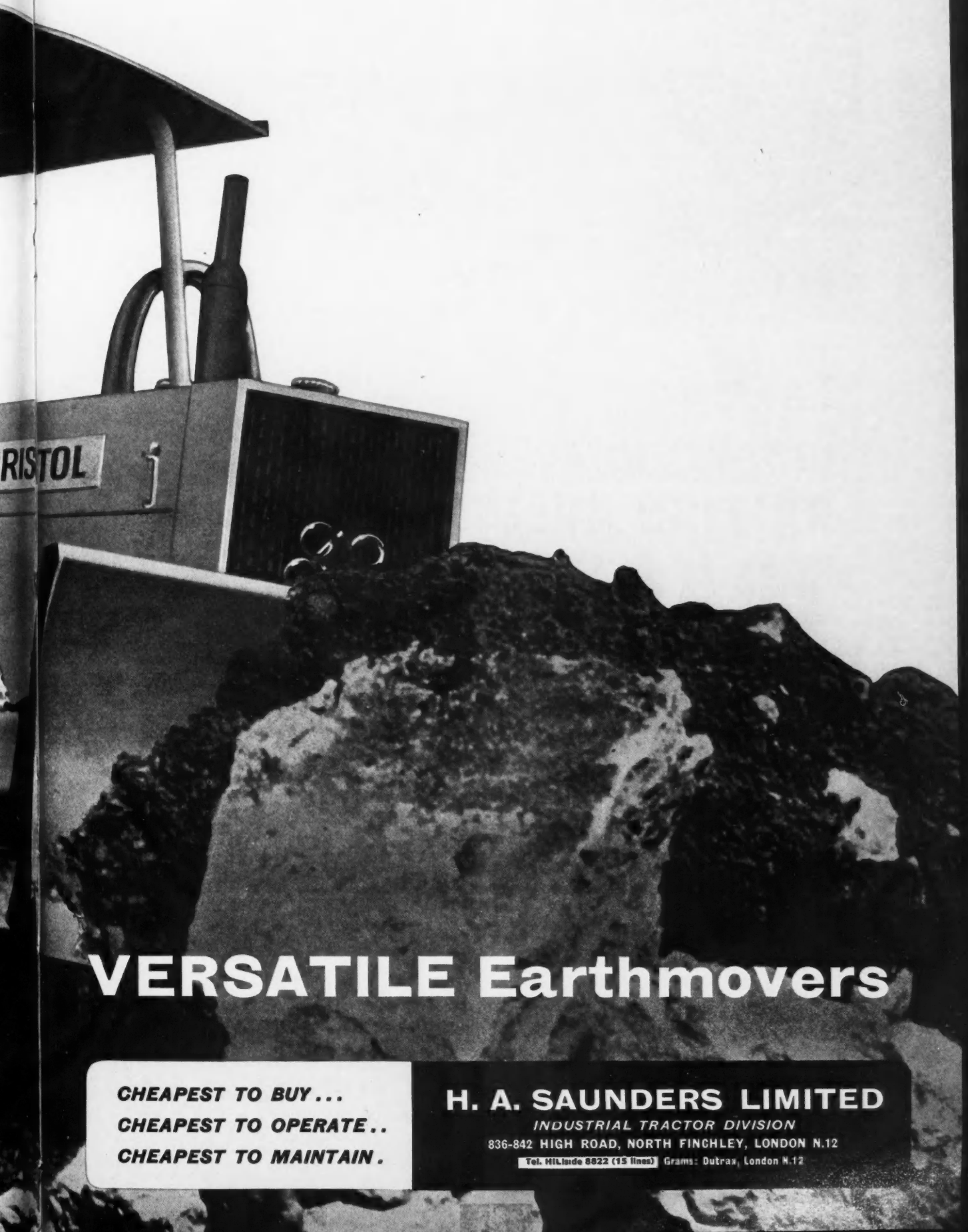


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It's just over a year since the South Eastern Gas Board bought a Michigan 175A for use at the Croydon Gasworks and during that time it really has proved its worth. Late in 1957 they decided to supply coal to this Station by road, making it necessary on occasions to recover from stock at the rate of 1,000 tons per 8-hour day. Existing handling facilities were inadequate for this purpose and were replaced by the Michigan 175A. The Michigan with its  $3\frac{1}{4}$  cu. yd. bucket, shifting 7,500 lbs of coal at each fast moving cycle, has proved to be a powerful asset, making substantial savings in manpower and time. The work calls for high-speed mobility, in many cases working on steep gradients. The customer is particularly impressed with the way the Michigan makes possible a constant turnover of stocks and the fact that this flexible, all purpose equipment is available at all times with an absolute minimum of "down-time". Now another Michigan 175A has been purchased for use at Wandsworth Gasworks to stock-out and reclaim coal.



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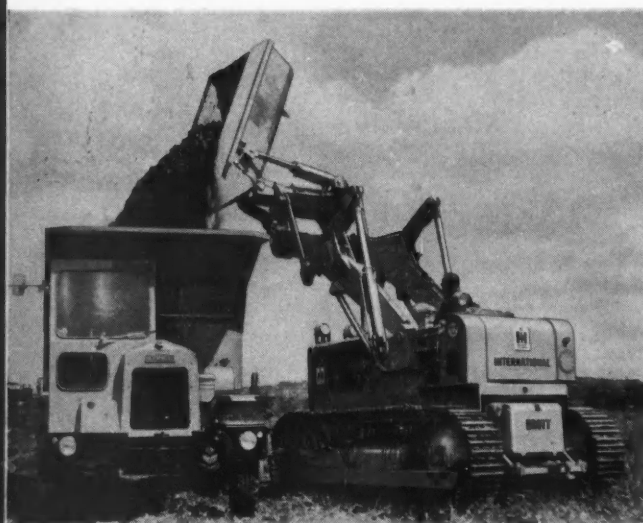
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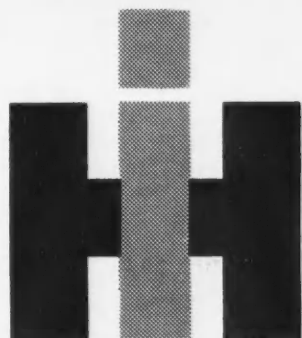
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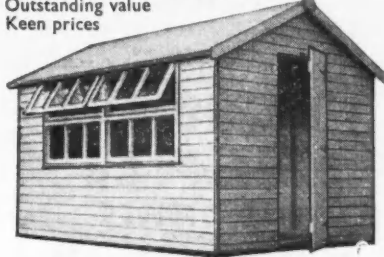
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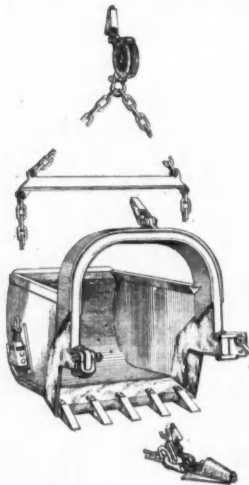
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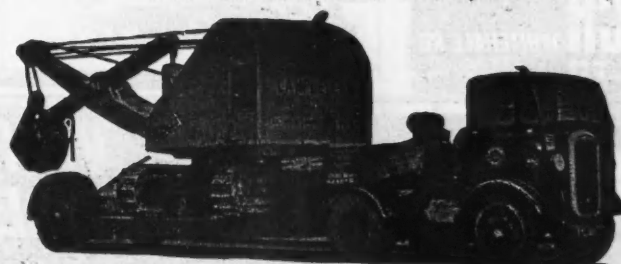
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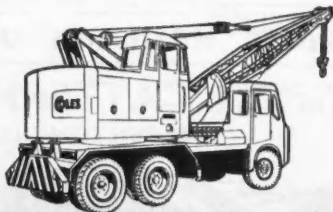
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1956 Dinkum Digger/Skyhi SHOVEL, Dozer Blade, spare Bucket, tyres as new, £475.

1955 Dinkum Digger/Skyhi SHOVEL, Dozer Blade, spare Bucket, tyres as new, £450.

1955 DINKUM DIGGER, with Hydraulic Dozer Front, completely reconditioned, £450.

1955 Platypus DOZER, Perkins P4 Engine, £275.

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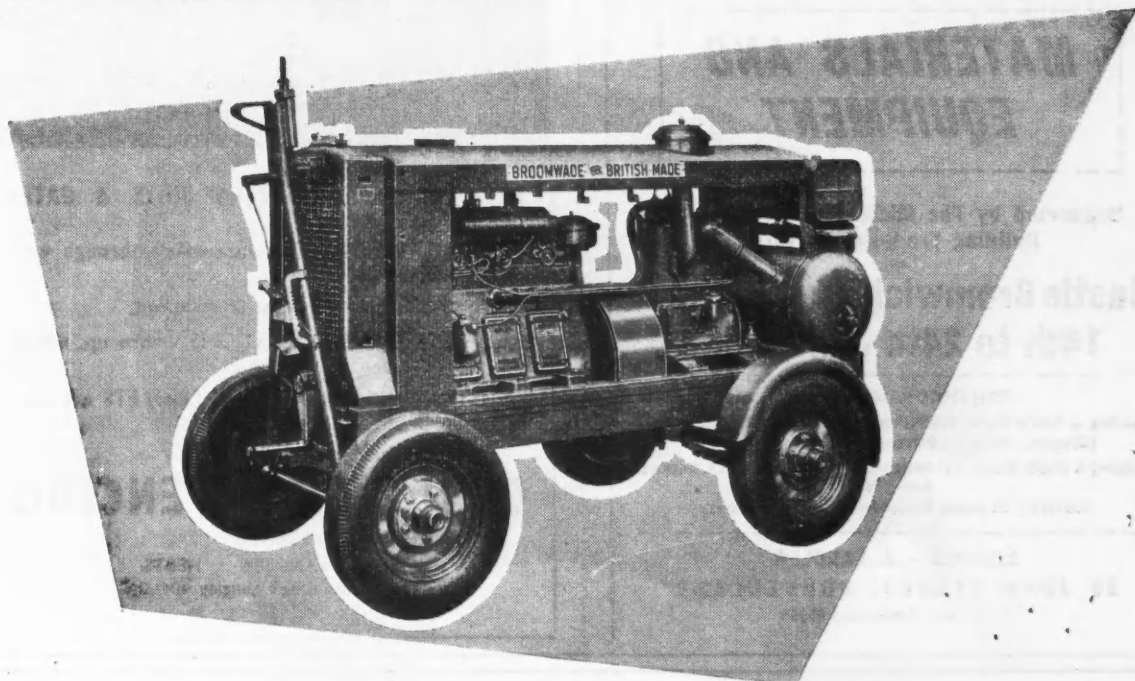
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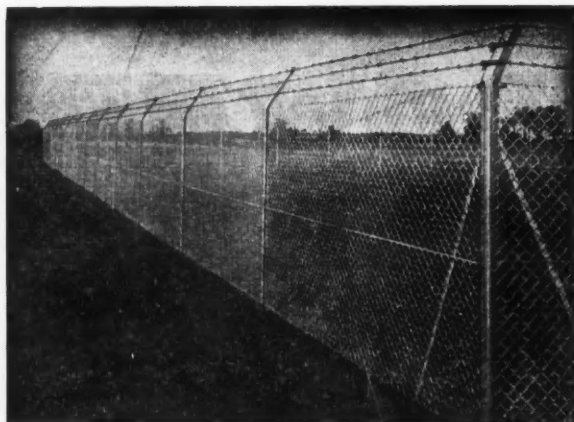
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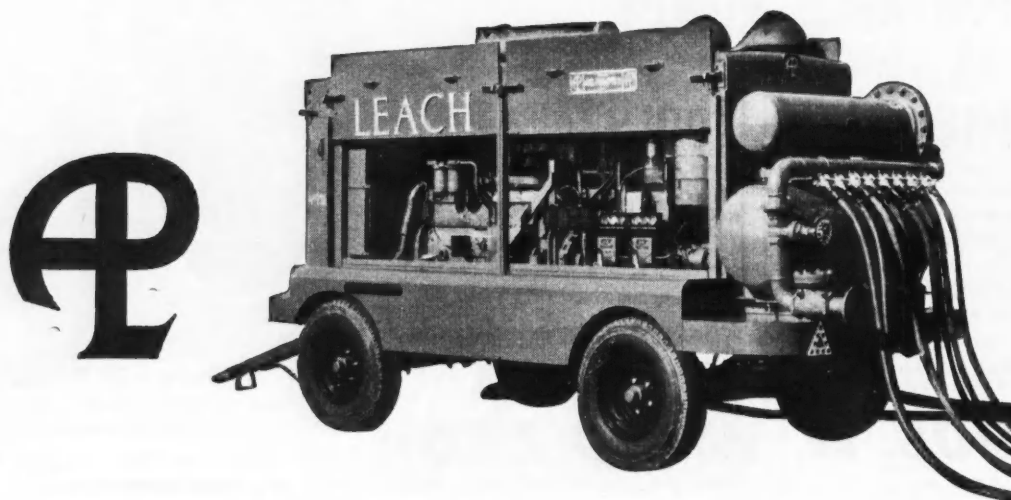
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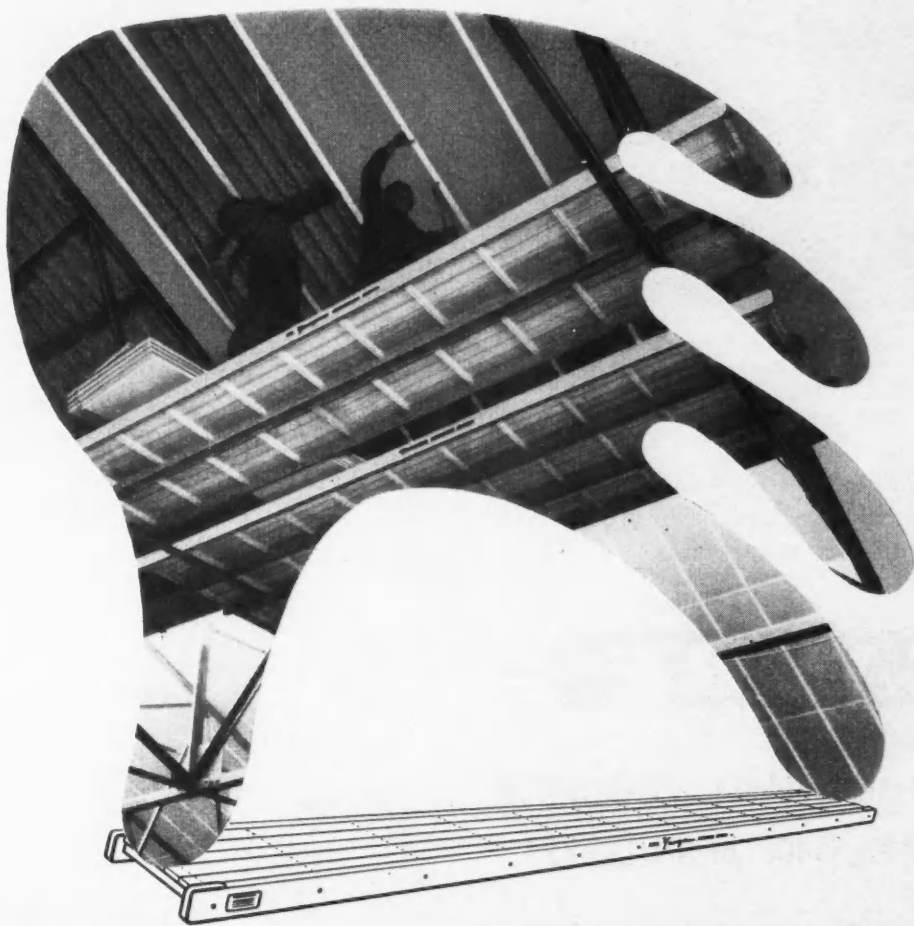
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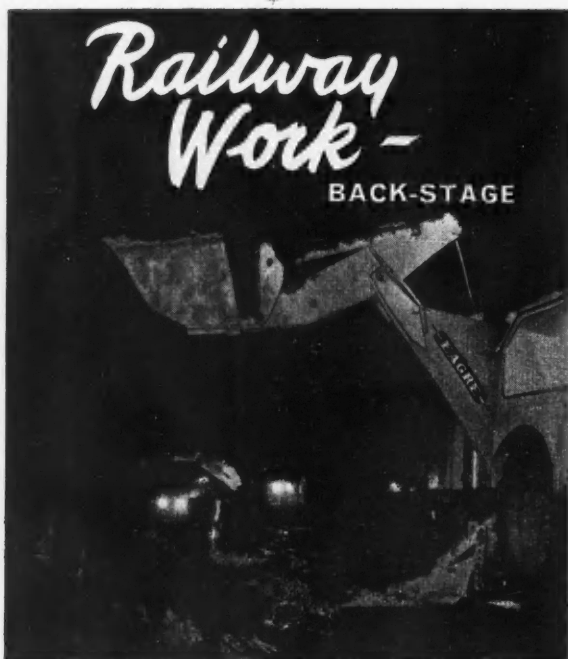


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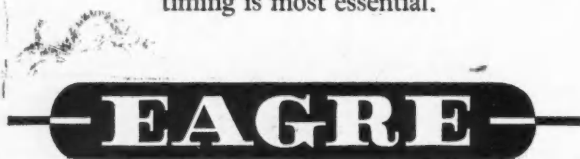




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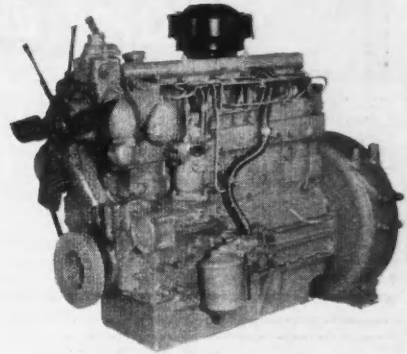
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						1000	1200	1500	1800	2000	2400	2800	3000	3600	
Four 99(I)	4	3	3½	99	A	10.5	13.5	18	22	24.5	29	32	34	—	
					B	12	15	20	24.4	27	32	35	38	—	
					C	12	15.5	20.5	25	27	33	36	39	43	
P3/144(I)	3	3½	5	144	A	16.5	20.5	25.5	30	33	—	—	—	—	
					B	18.5	22.5	28	33	36	—	—	—	—	
					C	18.5	23	29	34	37	42	—	—	—	
Four 203(I)	4	3.6	5	203	A	25	30	38	44	47	—	—	—	—	
					B	27.5	33	41	48	52	—	—	—	—	
					C	28	34	43	50	54	60	—	—	—	
Four 270(I)	4	4½	4½	270	A	33	39	47	53	57	—	—	—	—	
					B	36	43	52	58	62	—	—	—	—	
					C	34	41	51	60	65	—	—	—	—	
P6(I)	6	3½	5	288	A	37	45	56	66	72	—	—	—	—	
					B	38	46	58	69	75	83	—	—	—	
					C	37	44	55	65	71	—	—	—	—	
Six 305(I)	6	3.6	5	305	A	40	49	61	72	78	—	—	—	—	
					B	41	50	62	74	80	87	—	—	—	
					C	44	53	67	78	85	—	—	—	—	
Six 354(I)	6	3.875	5	354	A	48	58	73	86	93	—	—	—	—	
					B	48	59	75	87	94	105	112	—	—	
					C	49	62	80	96	105	—	—	—	—	
S6(I)	6	4½	5	450	A	54	68	88	106	115	—	—	—	—	
					B	56	70	90	108	119	—	—	—	—	
					C	56	70	90	108	119	—	—	—	—	

#### REMARKS

- A. Denotes continuous rating to BS 649: 1958 conditions (85°F. and 29.5 hg). For every 10° above 85°F. this rating should be reduced by 2% and for every 1000 ft. above 500 ft. altitude the rating should be reduced by 3½%.
- B. Denotes one hour rating to BS 649: 1958 conditions. See notes above re de-rating.
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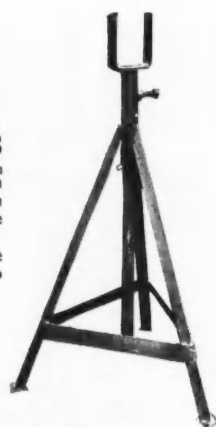
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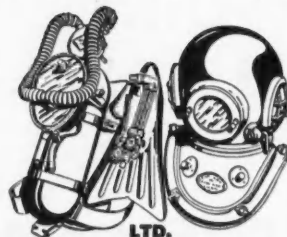
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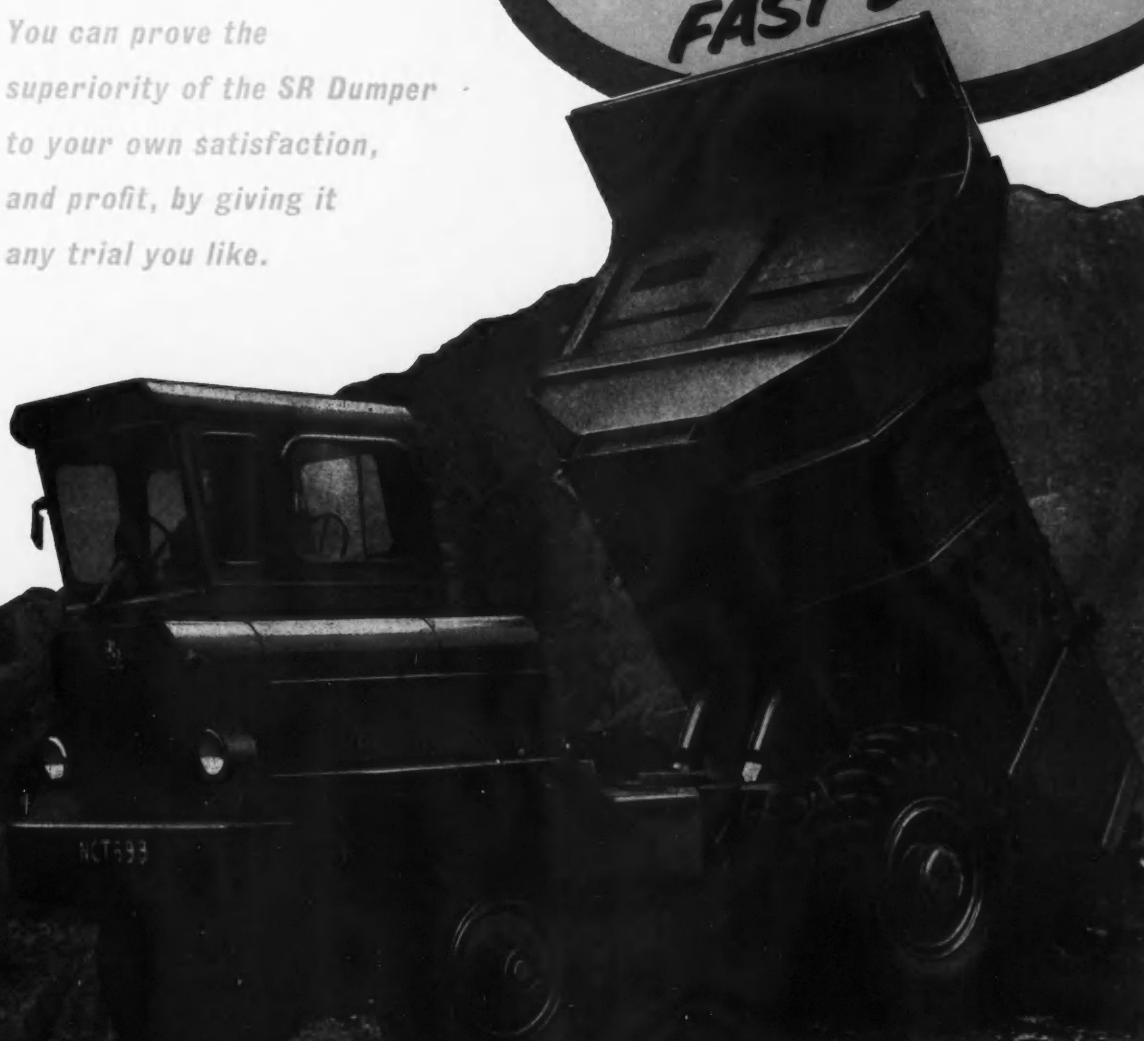
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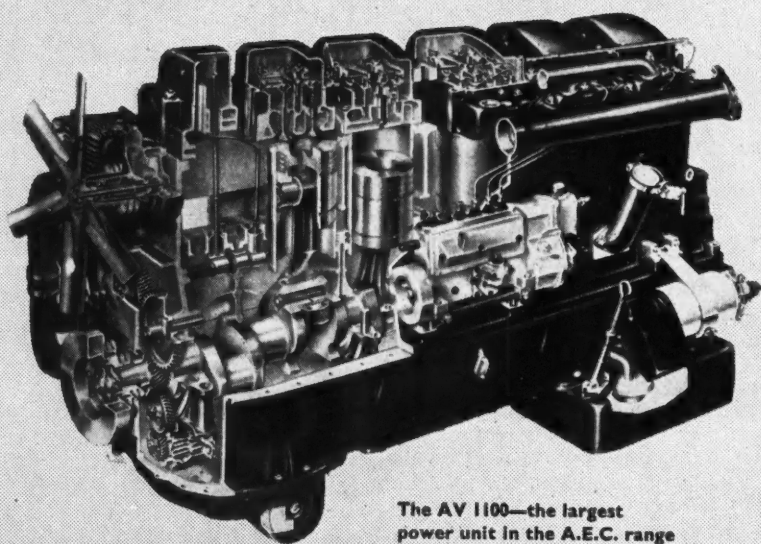
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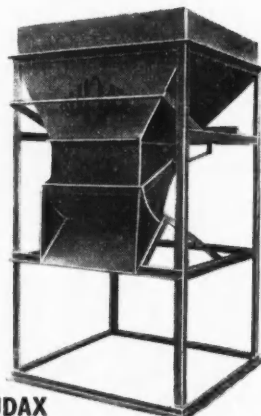
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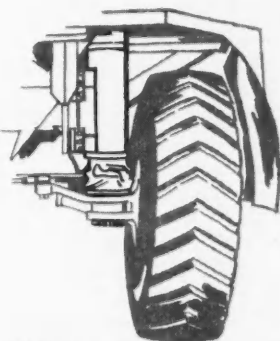


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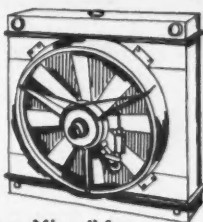
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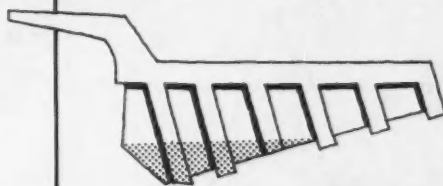
## HYDAIR suspension

Haulpak rides on air, not steel. No springs, no front-axle or related maintenance. Less deadweight. High ground clearance, short turns (below). Four simple Hydair units cushion load and road shocks, keep load riding level.



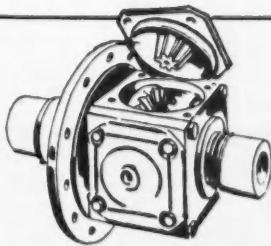
## "Power-Miser" fan

On the 27- to 60-ton Haulpaks, an aluminium-alloy radiator fan cools engine with less than half the hp-drain of conventional fans. Thermostat automatically shuts fan off when not needed, saves its horsepower for extra work-power.



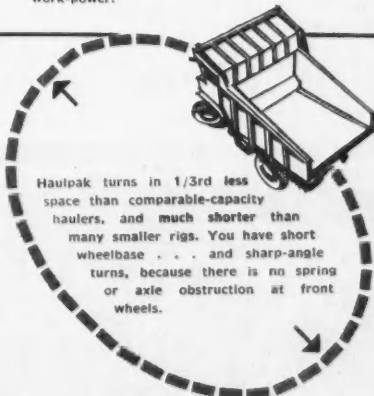
## "bonus-tonnage" V-body

Look at the extra load capacity you get within short wheelbase. Deep V-body carries up to 8 tons of material below normal floor-line. Centre of gravity is low. Exhaust-heated body prevents materials from sticking or freezing-in.

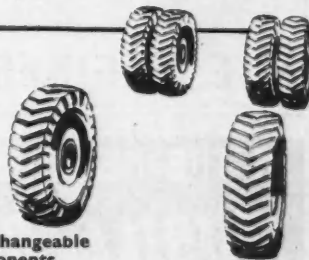


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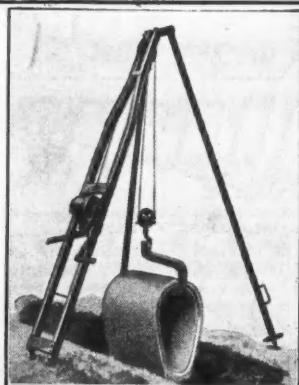
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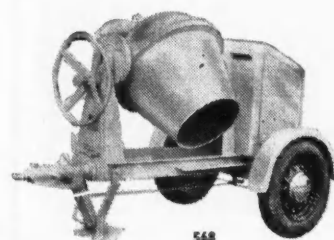
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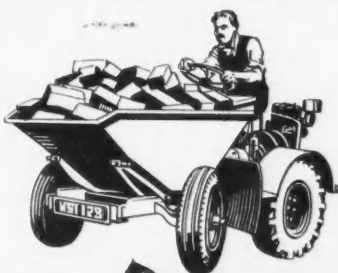
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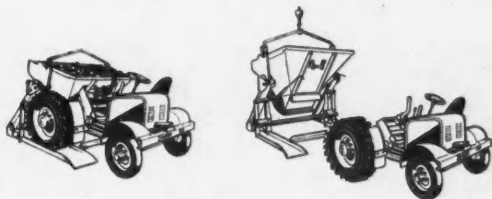
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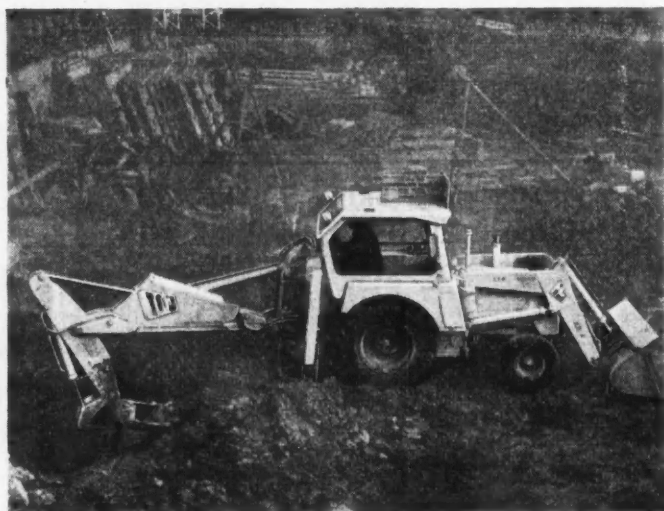
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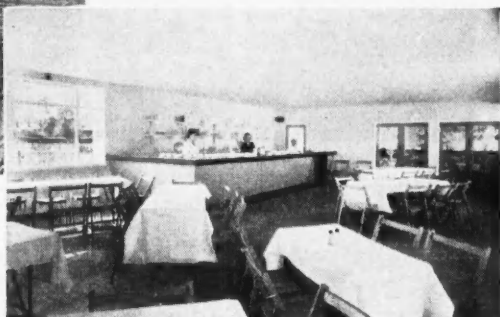


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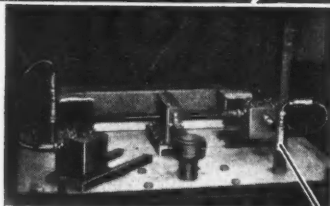
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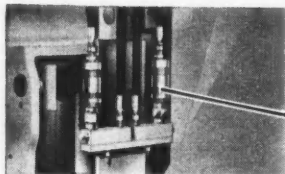
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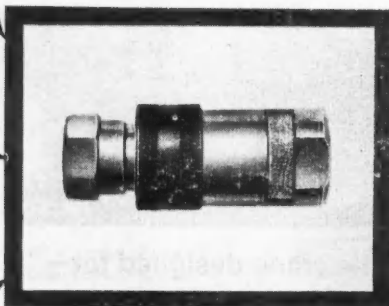
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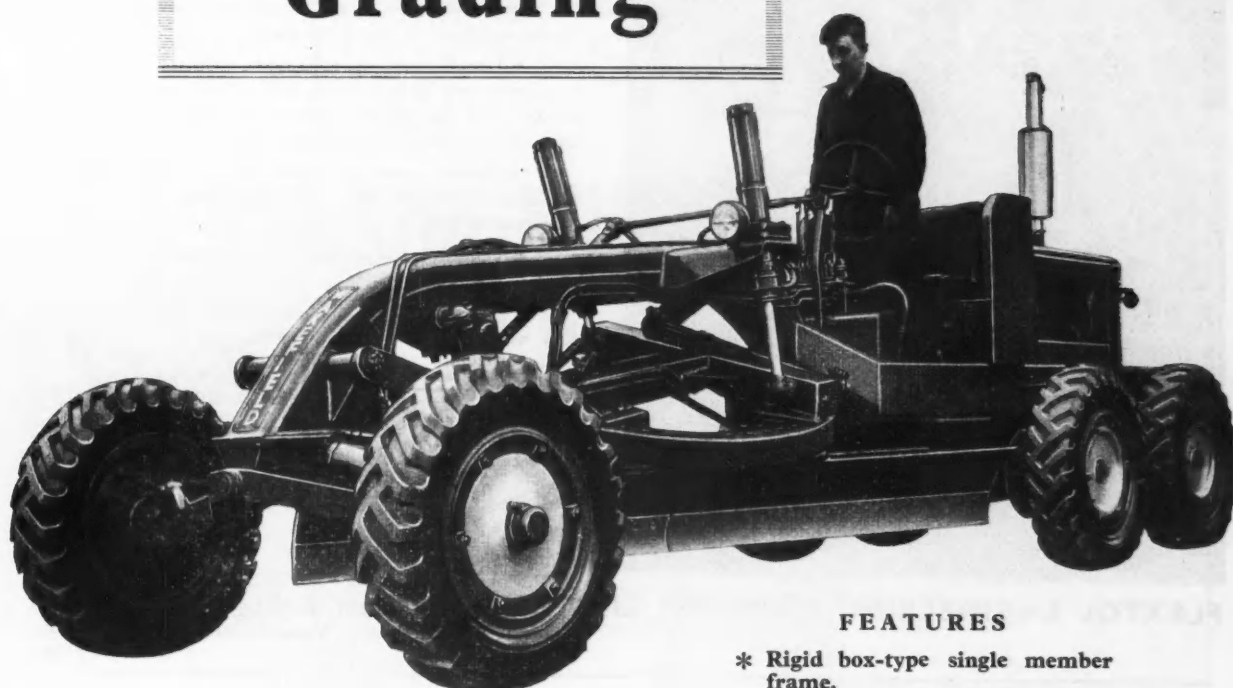
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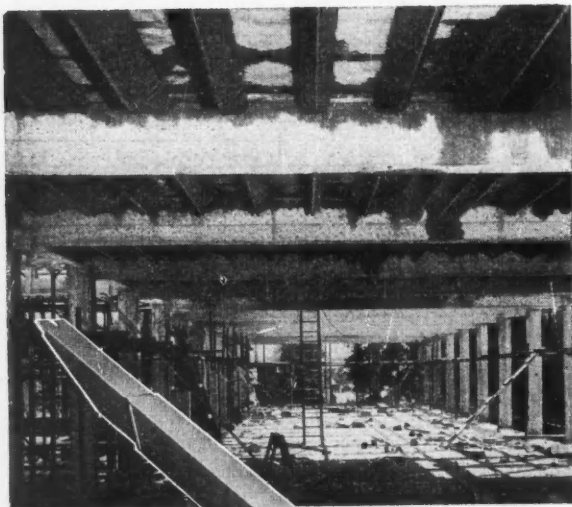
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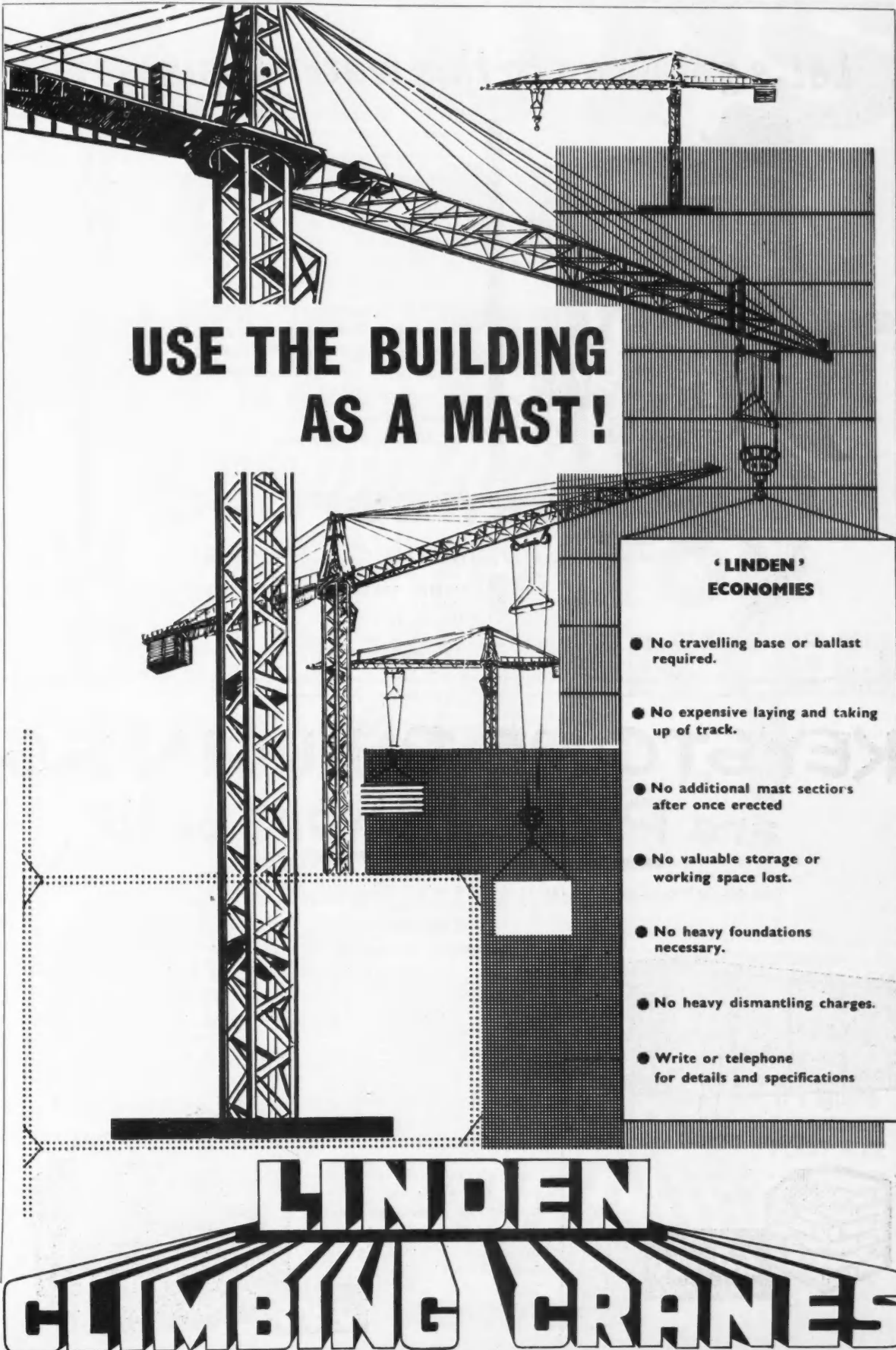
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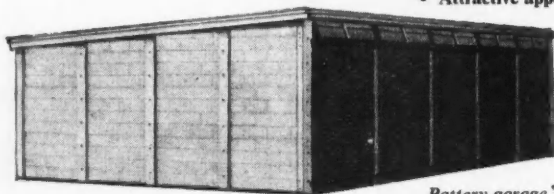
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**JAMES BERESFORD & SON LIMITED**  
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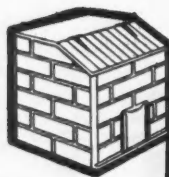
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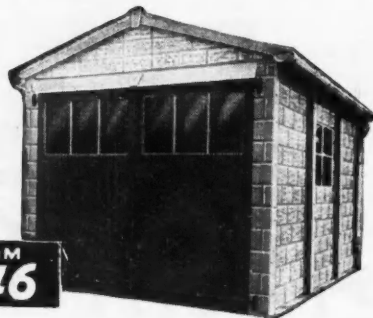
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in reinforced concrete with hinged wooden lid.

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# Protection saves pounds!

Millions of pounds are lost every year by leaving materials affected by damp uncovered in the open—machinery rusts—timber rots—sacks of cement ruined—rain prevents work on unprotected part finished buildings—time and valuable man hours lost. Combat this with DRIX, the multi-purpose protective Polythene cover.

Tough, seamless, eyeletted rectangular sheets in 500 gauge up to 24ft. x 48ft., in 700 gauge and 1,000 gauge up to 12ft. x 24ft. In gauges up to 1,000 by the roll or in lengths as required. All covers incorporate the patent DRIX eyelet.

The illustration shows sacks of cement covered in 500 gauge Black Polythene Sheet.



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**DRIX HOUSE**  
**WINCHESTER, HANTS**

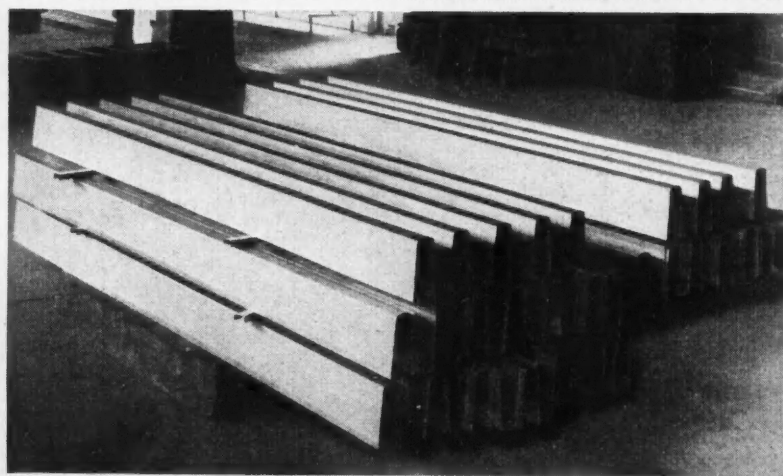
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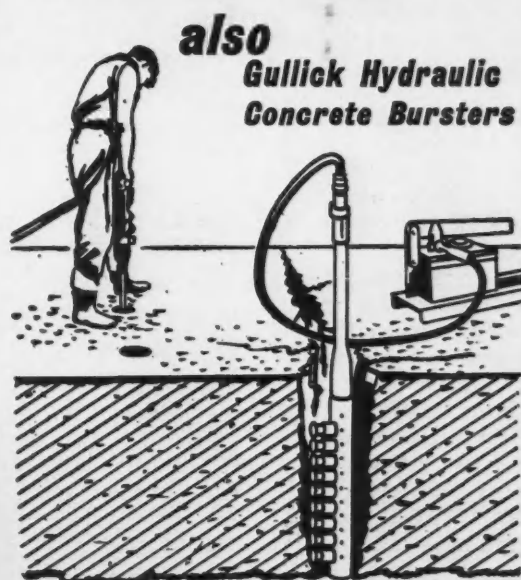
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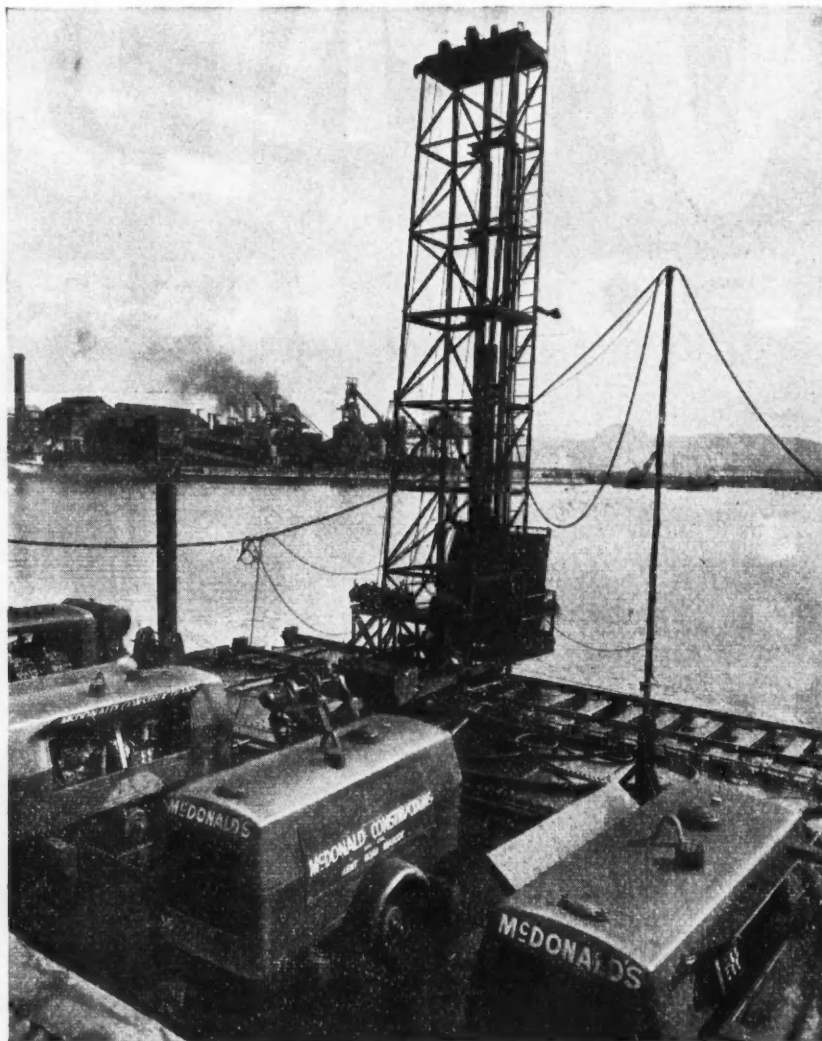
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Trust Australians to make the most of the versatility of "BROOMWADE" Rotaries. At Port Kembla, near Sydney, underwater rock drilling and blasting to open up and deepen the harbour is in progress. Pressure waves caused by underwater blasting could seriously damage the drilling machinery mounted on the barge. Three "BROOMWADE" Portable Rotary Compressors have therefore been installed to pump air through a thin plastic tube between the water and the hull, thus creating an air cushion which protects the barge against shock.

The compressors work around the clock whenever weather permits and the whole operation reflects great credit upon the ingenuity of the McDonald Constructions Pty. Ltd., the contractors, and upon the world-famous efficiency and reliability of "BROOMWADE" Portable Rotary Compressors.



*Photograph by courtesy of the McDonald Constructions Pty. Ltd.*

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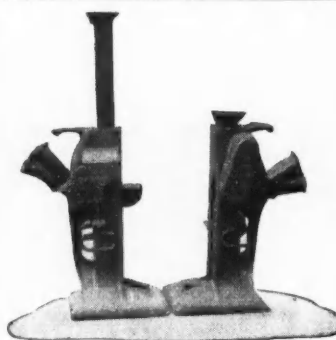
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SIR LINDSAY PARKINSON AND CO. LTD., require a Senior Agent to control a large new civil engineering contract. Applications from Qualified Civil Engineers between the ages of 35 and 45 who have been Agent or Deputy Agent on contracts with annual turnover of approximately one million pounds should be made in writing, giving in strict confidence, age, qualifications and outline of experience to the General Manager, Civil Engineering Department, Sir Lindsay Parkinson and Co. Ltd., 6 Lambeth Road, St. George's Circus, London, S.E.1, quoting Reference LVH/1.



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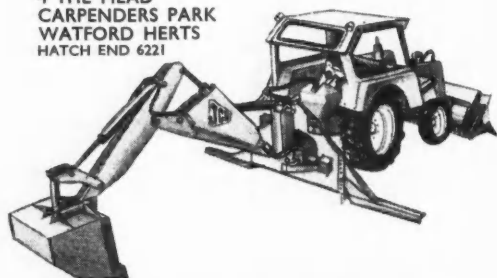
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SIR LINDSAY PARKINSON AND CO. LTD., require a number of Senior and Junior Site Engineers for contracts in various parts of the Country. Applications are invited from Qualified Civil Engineers familiar with the duties and responsibilities of these positions. There are good prospects for promotion in an expanding organisation. Applications giving age, qualifications, full details of experience, etc., should be made to the General Manager, Civil Engineering Department, Sir Lindsay Parkinson and Co. Ltd., 6 Lambeth Road, St. George's Circus, London, S.E.1, quoting reference LVH/2.

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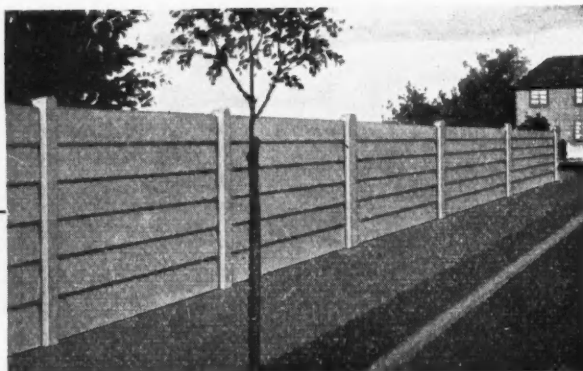
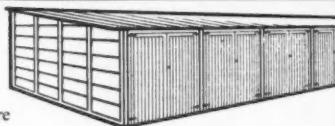
Ideal for all boundary fences, industry, schools, parks and private houses —consists of reinforced concrete panels approximately 5' long by 12" deep, slotted into attractive reinforced vibrated concrete posts. Ornamental top panels available. No maintenance required . . . lasts a lifetime.

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## **Sir Lindsay Parkinson & Co. Ltd.**

### **CIVIL ENGINEERING ESTIMATING**

The Company seeks the services of two first-class Estimators to work in London preparing tenders for major civil engineering projects.

Candidates need to have had a variety of experience and should be used to planning and programming at the tender stage.

These permanent appointments, which will be within the Company's pension scheme, will carry attractive remuneration for men of appropriate ability.

The Company further seeks a **Materials Estimating Assistant** possessing a good knowledge of the market for all civil engineering materials. He should be capable of extracting from Specifications, Bills of Quantities and drawings relevant details for formulating enquiries for quotations for the supply and be able to assist in compiling the material components of cost in tenders.

This appointment will be permanent, pensionable, and carry a good salary for an experienced and able man.

Applications giving brief details, experience, age, qualifications, and quoting Ref: LNS/1 should be made to:—

THE GENERAL MANAGER, CIVIL ENGINEERING DEPARTMENT,  
SIR LINDSAY PARKINSON & CO., LTD.,  
6 LAMBETH ROAD, ST. GEORGE'S CIRCUS, LONDON, S.E.1.



## CONTRACTS

### LINDSEY COUNTY COUNCIL.

#### HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY of the FOLLOWING VEHICLES and PLANT:—

- (a) Five Albion Claymore 5-ton Tippling Lorries.
- (b) Three International Industrial Tractors.
- (c) One Bray Loading Shovel.
- (d) Two 120/140 c.f.m. Compressors.
- (e) Two Concrete Mixers.
- (f) One 3in. Centrifugal Pump.

Full particulars and Form of Tender for each or any number of items are obtainable from COUNTY SURVEYOR, County Offices, Lincoln, and returnable not later than 19th APRIL, 1961.

### BOROUGH OF BEDDINGTON AND WALLINGTON.

#### ELECTRIC STREET LIGHTING.

TENDERS invited for SUPPLY and ERECTION of 161 Group "B" CONCRETE COLUMNS and BRACKETS with LANTERNS, 60-watt SODIUM LAMPS and CONTROL GEAR. Three existing Group "B" COLUMNS, and SUPPLY and ERECTION of TWO "AMBERLINE" 200-watt SODIUM LAMPS on 25ft. STEEL COLUMNS, complete with GEAR. Bill of Quantities, Form of Tender and Plans, may be obtained from the Borough Engineer, Town Hall, Wallington, Surrey, to be returned to the undersigned by 10 a.m. on FRIDAY, 28th April, 1961.

A. B. BATEMAN, Town Clerk.

Town Hall,  
Wallington.

### URBAN DISTRICT COUNCIL OF RAYLEIGH.

#### HIGHWAYS ACT, 1959.

MAKING-UP OF:  
(A) BROOKLYN DRIVE; (B) TALBOT AVENUE.

SEPARATE TENDERS are invited for the MAKING-UP of the ABOVE PRIVATE STREETS, including the Construction of approx. (a) 220 lin. yd., and (b) 150 lin. yd. of Lean-Mix Concrete Carriageway Surfaced with Bitumen Macadam, 5ft. wide Footways, Seeded Grass Verges, and incidental works of Kerbing, Street Lighting, and Soil and Surface Water Sewering. The Contract Drawings and General Conditions of Contract may be inspected at, and copies of the Specification, Bills of Quantities and Form of Tender obtained from, the Offices of the Engineer and Surveyor, Council Offices, Hockley Road, Rayleigh, Essex.

Completed Tenders, sealed in the envelope provided, must be delivered to the undersigned not later than Noon on MONDAY, 1st May, 1961. The Council does not bind itself to accept the lowest or any Tender.

C. E. FITZGERALD, Clerk of the Council.

Council Offices,  
Hockley Road,  
Rayleigh, Essex.

5th April, 1961.

### BARNET URBAN DISTRICT COUNCIL.

#### RE-LAYING OF PAVED FOOTWAYS.

The Council invites TENDERS for the TAKING-UP and RE-LAYING approx. 12,000 sq. yd. of PRE-CAST CONCRETE SLAB PAVED FOOTWAYS in VARIOUS ROADS within the District.

Conditions of Contract may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained, on application to the Engineer and Surveyor of the Council, Ravenscroft House, Wood Street, Barnet, on any day (Saturdays excepted) between the hours of 9 a.m. and 5 p.m.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on SATURDAY, 22nd April, 1961, and marked in the top left-hand corner of the envelope "Re-laying of Paved Footways." The Council does not bind itself to accept the lowest or any Tender.

ALFRED S. MAYES, Clerk of the Council.

Municipal Offices,  
Wood Street,  
Barnet, Herts.  
28th March, 1961.

### BARNET URBAN DISTRICT COUNCIL.

#### PATCHING AND SURFACE DRESSING TO CARRIAGEWAYS, ETC.

#### YEAR 1961/62.

The Council invites TENDERS for the PATCHING and SURFACE DRESSING of CARRIAGEWAYS within the Urban District, the total area involved being approx. 64,000 super. yds., and other incidental works. Conditions of Contract may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained, on application to the Engineer and Surveyor of the Council, Ravenscroft House, Wood Street, Barnet, on any day (Saturdays excepted) between the hours of 9 a.m. and 5 p.m.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on SATURDAY, 22nd April, 1961, and marked in the top left-hand corner of the envelope "Patching and Surface Dressing." The Council does not bind itself to accept the lowest or any Tender.

ALFRED S. MAYES, Clerk of the Council.

Municipal Offices,  
Wood Street,  
Barnet, Herts.  
28th March, 1961.

### CANVEY ISLAND URBAN DISTRICT COUNCIL.

#### STREET WORKS.

TENDERS will shortly be required for the MAKING-UP of the FOLLOWING:

- Trevia Avenue; Foksville Road; Haarle Road; Hellendoorn Road; Roosevelt Avenue; Woodville Road; Wilrich Avenue; Vanderwalt Avenue; Voorburg Road; Tongares Road; Thielens Road; Delft Road; Waarem Avenue.

The works comprise approx. 10,450 sq. yd. of Reinforced Concrete Carriageway, together with Surface Water Sewers, and ancillary works. Contractors who desire to receive Specifications, Bills of Quantities and Forms of Tender should make application to the Engineer of the Council not later than 17th APRIL. The application should be accompanied by a deposit of £2 which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

J. RUMBLE, Clerk of the Council.

Council Offices,  
Canvey Island,  
Essex.

## CONTRACTS

### CORPORATION OF BERWICK-UPON-TWEED.

#### TENNIS COURTS, SPITTAL.

TENDERS are invited from specialist contractors for the RESURFACING of THREE TENNIS COURTS at SPITTAL PROMENADE. Any further particulars can be obtained from the Borough Surveyor.

Tenders, with Specification, should be sent to the undersigned, enclosed in a plain sealed envelope without any name or mark indicating the sender and endorsed "Tender for Tennis Courts," by not later than Noon on MONDAY, 17th April, 1961.

R. B. DAVISON, Town Clerk.

Municipal Buildings,  
Berwick-upon-Tweed,  
29th March, 1961.

### BOROUGH OF NEWBURY.

#### PRIVATE STREET WORKS ACT, 1892.

PRIORY ROAD AND ABBOTS ROAD, NEWBURY.

TENDERS are invited by NEWBURY CORPORATION for the MAKING-UP of the ABOVE ROADS.

Forms of the Specification of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose Office Plans, General Conditions and Conditions of Contract may be inspected.

Sealed Tenders, endorsed "Priory Road and Abbots Road P.S.W.," must be delivered to the undersigned not later than 9 a.m. on THURSDAY, 27th April, 1961. The Corporation do not bind themselves to accept the lowest or any Tender.

LESLIE SOUTHERN, Town Clerk.

Municipal Buildings,  
Newbury.

### BOROUGH OF NEWBURY.

106 HOUSES, SCHEME 9A—  
TURNPIKE ROAD ESTATE, NEWBURY.

TENDERS are invited for the CONSTRUCTION of the ABOVE.

Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose Office Plans and General Conditions may be inspected.

Sealed Tenders, endorsed "Tender for Scheme 9A," must be delivered to the undersigned not later than 9 a.m., FRIDAY, 5th May, 1961. The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN, Town Clerk.

### BOROUGH OF TENTERDEN.

PROPOSED CAR PARK—  
REAR OF EMBASSY CINEMA, TENTERDEN.

TENDERS are invited for the CONSTRUCTION of the proposed CAR PARK at the rear of the EMBASSY CINEMA, Tenterden.

Bills of Quantities, Specifications, Drawings and Form of Tender may be obtained from R. J. NICHOLS, Esq., Borough Surveyor, Town Hall, Tenterden, Kent, on payment of a deposit of Two Guineas, which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders, sealed in the envelope provided, must reach the undersigned not later than 12 Noon on THURSDAY, 20th April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

C. A. SAUNDERS, Town Clerk.

Town Hall,  
Tenterden, Kent.  
30th March, 1961.

### CITY OF CARDIFF.

#### CITY SURVEYOR'S DEPARTMENT.

FIXED-PRICE TENDERS are invited for

STRUCTURAL STEELWORK for FAIRWATER COUNTY PRIMARY SCHOOL, PENTREBANE ROAD, Cardiff.

Conditions of Tender, Specification and Drawings may be obtained from the City Surveyor, at whose office Conditions of Contract may be inspected and to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Structural Steelwork—Fairwater C.P. School, Cardiff," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post or Recorded Delivery so as to be received not later than the 5th MAY, 1961.

The envelope must not bear the name of or any mark indicating the identity of the tenderer. The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES, Town Clerk.

City Hall,  
Cardiff.

28th March, 1961.

### GREAT OUSE RIVER BOARD.

TENDERS are invited for the FOLLOWING WORKS to be constructed during the financial year 1961-62:

- (1) HARROLD MILL.—The work consists of the Adaptation of the existing Side Weirs and the Mill Thrift for Low Flow Gauging, involving a small amount of Concreting, together with ancillary works.

- (2) CAPPEHAM BRIDGE.—The work consists of the Construction of Reinforced Concrete Gauging Weir on the River Tove, with some River Channel Dredging, together with ancillary works.

- (3) RAVENSTONE MILL.—The work consists of Attendance on the installation of a Sluice Gate, 15ft. x 2ft., together with ancillary works.

- (4) CHESTERFORD MILL.—The work consists of the Construction of a Reinforced Concrete Spillway, crest width 65ft., and ancillary works.

Copies of the tender documents and Drawings can be obtained from the Engineer of the Board at the address given below, on payment of a deposit of Five Guineas for each contract (cheques to be made payable to the Great Ouse River Board), which will be refunded on the receipt of bona-fide Tenders, not subsequently withdrawn, and on the return of all documents and Drawings.

Tenders, enclosed in the endorsed addressed envelopes provided, must be received by me not later than 9 a.m. on MONDAY, 1st May, 1961.

K. M. RODDIS, Clerk of the Board.

Elmhurst,  
Brooklands Avenue,  
Cambridge.

29th March, 1961.

## CONTRACTS

### COUNTY BOROUGH OF BIRKENHEAD.

#### ROADS DEPARTMENT.

TENDERS are invited for the FOLLOWING SUPPLIES for nine months ending 31st March, 1962:—

- (1) Granite; (2) Tarrad Macadam and Hot-rolled Asphalt; (3) Natural Kerbs and Flags; (4) Concrete Kerbs and Channels; (5) Concrete Flags; (6) Cement; (7) Bituminous and Tar Compounds; (8) Salt Glazed Ware Pipes, etc.; (9) Iron Castings; (10) Coarse and Fine Gravel Aggregates.

Form of Tender, Specifications, etc., from the BOROUGH ENGINEER AND SURVEYOR, 3 Conway Street, Birkenhead. Closing date for Tenders, 1st MAY, 1961.

### BOROUGH OF BEXHILL.

#### SURFACE DRESSING—CARRIAGEWAYS.

TENDERS are invited from contractors specialising in this type of work for the SURFACE DRESSING of approximately 48,700 super. yd. of CARRIAGEWAY within the Borough.

General Conditions of Contract may be seen, and a copy of the Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Bexhill-on-Sea, Sussex.

Tenders, in envelope provided, and not bearing any name or mark to indicate the sender, must be returned to the undersigned not later than 9 a.m. on SATURDAY, 22nd April, 1961.

The Council does not bind itself to accept the lowest or any Tender.

EDWARD SMITH, Town Clerk.

Town Hall,  
Bexhill,  
Sussex.

### BOROUGH OF SURBITON.

#### SURBITON ASSEMBLY ROOMS.

INTERNAL RECONSTRUCTION OF THE SMALL HALL, LOUNGE AND CLOAKROOM FACILITIES.

TENDERS are invited for the ABOVE WORK in accordance with the Specification and Conditions of Contract, which may be obtained from the Office of R. THIRLWAY, M.I. Mun. E., Registered Architect, Borough Engineer and Surveyor, Council Offices, Ewell Road, Surbiton, Surrey.

The Tender document, with the Form of Tender completed, shall be enclosed in the endorsed envelope provided, and bearing no name or mark indicating the sender, shall be delivered to the undersigned not later than 5 p.m. on FRIDAY, 28th April, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

JOHN H. A. CRUNDELL, Town Clerk.

### CITY OF BIRMINGHAM.

#### TO BUILDING CONTRACTORS.

CONTRACT 755B—7B TWO- and FOUR-STOREY DWELLINGS, CALTHORPE PARK DEVELOPMENT AREA, PERSHORE ROAD, EDGBASTON.

The House Building Committee invite TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 11th April, 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The Tender will be returned on receipt of a bona-fide Tender, or on notification of inability to Tender, together with the return of the documents not later than three days before the date for receipt of Tenders. Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, the 12th May, 1961. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON, Town Clerk.

The Council House,  
Birmingham, 1.

### BARNET URBAN DISTRICT COUNCIL.

#### TO CARTAGE CONTRACTORS.

#### CONVEYANCE OF REFUSE.

The Barnet Urban District Council is prepared to receive TENDERS from competent persons for the WORK OF DAILY CONVEYANCE OF HOUSE AND TRADE REFUSE from Barnet to Holwell Hyde, Cole Green, Herts. The period of Contract is to be five years, and the amount of Refuse to be dealt with is at the rate of 6,500 tons per annum, approx.

Specification of Work Required and Form of Tender may be obtained on application to the Surveyor, Ravenscroft House, Wood Street, Barnet, Herts.

Tenders, sealed and endorsed "Conveyance of Refuse," are to be delivered to the undersigned, at his Office, not later than 12 Noon on the 22nd APRIL, 1961.

The Council does not bind itself to accept the lowest or any Tender, and any Tender which is not upon the official form or not fully completed will be rejected.

ALFRED S. MAYES, Clerk of the Council.

Municipal Offices,  
Wood Street,  
Barnet, Herts.

28th March, 1961.

### EVESHAM RURAL DISTRICT COUNCIL.

#### ASHTON-UNDER-HILL SEWERAGE SCHEME.

TENDERS are invited, on a Fixed-price Basis, for LAYING approx. 2,750 yd. of 6in. SOIL SEWER and 350 yd. of 4in. RISING MAIN, with necessary Man-holes and other incidental works, and for the Construction of a Sewage Disposal Works.

Form of Tender, Specification, Bills of Quantities and Plans may be obtained from the Engineer and Surveyor, Lansdowne, Port Street, Evesham.

Tenders, in a plain sealed envelope endorsed "Ashton-under-Hill Sewerage Scheme," to be delivered to the undersigned by 9 a.m. on TUESDAY, 9th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

C. H. GARDINER, Clerk of the Council,

Lansdowne,  
Port Street,  
Evesham.

29th March, 1961.



## CONTRACTS

## GLAMORGAN COUNTY COUNCIL.

HIGHWAYS ACT, 1959—PRIVATE STREET WORKS.  
TO PUBLIC WORKS CONTRACTORS.

TENDERS are invited for the MAKING-UP of the FOLLOWING PRIVATE STREETS:  
Springfield Road and Penbryn Road, Skewen, the principal works comprising:  
Carriageway, 1,650 sq. yd.; Footpaths, 950 sq. yd.; Kerbing, 600 lin. yd.; Storm Water Drainage, 200 lin. yd.; and incidental works.

Specifications, Bills of Quantities, Forms of Tender can be obtained from the County Surveyor, County Hall, Cardiff, on payment of a deposit of £3. The deposit will be returned, subject to the Conditions of the Tender, on receipt of a bona-fide Tender and the return of all the documents supplied.

General Conditions of Contract and Drawings may be seen at the Offices of the County Surveyor during normal working hours.

Contractors will be required to pay the recognised rates of wages and to observe the recognised hours of labour.

Sealed Tenders, made out on the prescribed form and accompanied by the priced Bill of Quantities, are to be delivered, in the envelope provided, at the County Hall, Cardiff, by the First Post on the 7th MAY, 1961, addressed to the Clerk of the Glamorgan County Council.

The County Council will not necessarily accept the lowest or any Tender.

RICHARD JOHN,  
Clerk of the County Council.

County Hall,  
Cardiff,  
29th March, 1961.

## COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for GENERAL BUILDERS' WORK in connection with PROVISION of ADDITIONAL TOILET ACCOMMODATION and EXTENSIONS to DINING HALL at THE GABLES, Wombwell, near Barnsley.

Plans and Specifications are available for inspection at the office of the Divisional Architect, Bishopcarr, Westfield Road, Wakefield, to whom application should be made for Tender documents.

The Contract will be governed by the R.I.B.A. Form of Agreement.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 5, County Hall, Wakefield, not later than 12 Noon on MONDAY, 24th April, 1961.

BERNARD KENYON,  
Clerk of the County Council.

## COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.  
SUPPLY OF SEWAGE PUMPS.

QUOTATIONS are invited for the SUPPLY, DELIVERY and ERECTION OF SEWAGE and SLUDGE PUMPS at the Berr Hill Sludge Disposal Site.

Specification, etc., obtainable from Borough Engineer, Town Hall, Bournemouth, to whom quotations should be sent to arrive by 10th May, 1961.

A. LINDSAY CLEGG,  
Town Clerk.

## BOROUGH OF WORTHING.

EAST AND WEST WORTHING SEWAGE DISPOSAL WORKS RECONSTRUCTION.

CONTRACT 2—  
WEST WORTHING PUMPING STATION, ETC.

Civil engineering contractors who wish to have their names considered for inclusion in the selected list of contractors to be invited to TENDER for the ABOVE-MENTIONED WORKS, comprising:

- Alterations to Pump House and Installation of Pumps.
- Screening and Disintegrator Unit.
- Laying of 132 yd. of 14in. and 20in. Cast-iron Rising Main and 108 yd. of 18in. and 27in. Concrete Pipes.

should forward full details of their experience on works of this nature to the Borough Engineer and Surveyor, at the address below, to be received by MONDAY, 17th April, 1961.

E. G. TOWNSEND,  
Town Clerk.

Borough Engineer and Surveyor's  
Department,  
Town Hall,  
Worthing,  
28th March, 1961.

## MARKET BOSWORTH RURAL DISTRICT COUNCIL.

PARISH OF IBSTOCK.

RELIEF SEWERS AND SEWAGE OF STATION ROAD.

TENDERS are invited from suitably experienced contractors for the LAYING of approx. 5,700 yd. of CAST-IRON, CONCRETE AND SALT GLAZED WARE SEWERS, House Connections and Pumping Mains of varying diameters up to 24in., and the CONSTRUCTION of a PUMPING STATION at IBSTOCK, Leicestershire. Period of Contract 18 months.

Key Plans, Specification and Bill of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, on payment of a deposit of Five Guineas which will be refunded on receipt of a bona-fide Tender and the return of the documents. Further detail Drawings are available for inspection at the same office.

Tenders, on the form supplied and in the envelope provided, are to be delivered to the undersigned not later than 10 a.m. on SATURDAY, 13th May, 1961. The Council do not bind themselves to accept the lowest or any Tender.

C. J. HOLMES,  
Clerk of the Council.

Council Offices,  
Market Bosworth,  
Near Nuneaton.

## MIDHURST RURAL DISTRICT COUNCIL.

SUPPLY OF REFUSE COLLECTION VEHICLE.

TENDERS are invited for the SUPPLY of ONE GIBSON PENDULUM COMPRESSOR REFUSE COLLECTOR mounted on a suitable chassis.

Further details and Specification may be obtained from the Council's Engineer and Surveyor, Council Offices, North Street, Midhurst.

D. L. BLAY,  
Clerk of the Council.

Council Offices,  
North Street,  
Midhurst, Sussex.

## CONTRACTS

## BOROUGH OF SOUTHALL.

RECONSTRUCTION OF TRINITY ROAD.

TENDERS are invited for the RECONSTRUCTION of TRINITY ROAD between Uxbridge Road and Beconsfield Road.

The works include the Laying of some 1,600 sq. yd. of 8in. thick Lean-Mix Concrete Carriageway, with Surfacing approx. 4,300 sq. yd. of 2½in. Bituminous Wearing Course, the Re-laying of 2,400 sq. yd. of P.C.C. Paving and 1,050 lin. yd. of 12in. x 6in. Granite Kerb.

Copies of the Form of Tender, Specification and Bill of Quantities may be obtained from the Borough Engineer, Town Hall, Southall, on payment of £2 which will be returned on receipt of a bona-fide Tender.

Tenders must be delivered to the undersigned, in the envelope provided, and which shall not bear any identification of the sender, not later than Noon, MONDAY, 24th April, 1961.

J. S. SYRETT,

Town Hall,  
Southall, Middx.

Town Clerk.

## CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The HOUSING COMMITTEE of the CORPORATION are prepared to receive TENDERS for the ERECTION of PERMANENT BRICK GARAGES on VARIOUS SITES, as FOLLOWS:

Group 1—30 Garages on the Montagu Estate (Group 1).

Group 2—41 Garages on the Montagu Estate (Group 2).

Bills of Quantities and Forms of Tender may be obtained on application, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Plans and Conditions of Contract may be seen. Contractors are asked to state in their application the group or groups for which they desire to tender.

Sealed Tenders must reach the City Architect not later than 10 a.m. on WEDNESDAY, 26th April, 1961.

No Tender will be received except in the official envelope which must not bear any name or mark indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,

Town Hall,  
Newcastle upon Tyne, 1.  
30th March, 1961.

Town Clerk.

## HALE URBAN DISTRICT COUNCIL.

ERECTION OF FLATS, DELAHAYS ESTATE.

FIXED-PRICE TENDERS are invited for the ERECTION of 24 FLATS in SIX BLOCKS of FOUR.

Tendering documents and full information obtainable from the Engineer and Surveyor at the Council Offices, Hale, Cheshire, on payment of a deposit of £2, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be in plain sealed envelopes endorsed "Tender—Flats," and reach me by 9th MAY, 1961.

R. W. HORSFALL,  
Clerk of the Council.

## THE URBAN DISTRICT COUNCIL OF KEYNSHAM.

TEMPLE STREET IMPROVEMENT.

TENDERS are invited for the RECONSTRUCTION of approx. 1,365 sq. yd. CARRIAGEWAY, together with 327 sq. yd. Footpath.

Specification, Bill of Quantities and Form of Tender may be obtained upon application to the Engineer and Surveyor, Council Offices, Keynsham, Bristol, on payment of a deposit of Two Guineas which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Temple Street Improvement," must reach the undersigned not later than the First Post on FRIDAY, 28th April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

GEO. R. ASHTON,

Clerk of the Council.  
Council Offices,  
Keynsham,  
Bristol,  
30th March, 1961.

## SOUTHAM RURAL DISTRICT COUNCIL.

RATLEY SEWERAGE.

The Council invite TENDERS from contractors having experience in similar work for THIS SCHEME which consists of the FOLLOWING:

- Laying of approx. 1,300 yd. of 6in. dia. S.I. Sewers, together with the Construction of relevant Manholes.
- Construction of a Sewage Disposal Works, consisting of two Septic Tanks (capacity 7,500 gallons), one Percolating Filter (150 cu. yd.), two Humus Tanks (capacity 1,700 gallons), and a Sludge and Supernatant Water Pump Station, together with the necessary Drains, Chambers, etc.
- House Connections.

All in accordance with the Drawings, Specifications, Bills of Quantities and Conditions of Contract prepared by MESSRS. W. HERBERT BATEMAN AND PARTNERS, of Bathaston, Norwich and Westminster, the Consulting Engineers to the Council.

The Drawings, Specifications, Bill of Quantities and General Conditions of Contract are available for inspection by appointment at the Offices of the Council or at the Bathaston Office of the Consulting Engineers during normal office hours, but technical questions can be dealt with only at the latter office.

Copies of tendering documents will be issued to intending contractors on application to Messrs. W. Herbert Bateman and Partners, Chesterfield House, Bathaston, Bath.

Applications for tendering documents must be accompanied with the names and addresses of three engineers under whose direction similar schemes have been carried out by the applicant, together with a deposit of £5 5s. which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders on the form provided in the Bill of Quantities, endorsed "Ratley Sewerage Scheme," accompanied by the Bill of Quantities priced in ink, should be posted to reach the undersigned not later than the First Post on MONDAY, 8th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and will not be responsible for any expenses incurred by those tendering.

J. I. YOUNG,

Clerk of the Council.  
Council Offices,  
The Grange,  
Coventry Road,  
Southam, Warwick.

## CONTRACTS

## METROPOLITAN BOROUGH OF WANDSWORTH.

MODERNISATION OF TOWN HALL.

Contractors specialising in works of Interior modernisation and decoration, wishing to TENDER for WORKS of THIS NATURE to be carried out to the TOWN HALL, WANDSWORTH, should submit names to me by 24th APRIL, 1961, giving details of experience, technical and supervising staff available, with names of two technical and two financial referees.

Bills of Quantities will be issued to selected contractors in due course.

Drawings may be seen by appointment at Offices of JOHN AND SYLVIA REID, Chartered Architects, 131 Tolbot Road, Highgate, N.6 (Tel.: MOUNTVIEW 7131).

J. NOEL MARTIN,

Town Clerk.  
Municipal Buildings,  
Wandsworth, S.W.18.  
23rd March, 1961.

## METROPOLITAN BOROUGH OF WANDSWORTH.

RECONSTRUCTION OF SEWERS.

Contractors wishing to TENDER for the RECONSTRUCTION of approx. 2,000 yd. of SEWERS in S.W. ROADS should submit names to me by 19th APRIL, 1961, giving names of two technical and two financial referees.

Tender documents will be issued to selected contractors in due course.

J. NOEL MARTIN,

Town Clerk.  
Municipal Buildings,  
Wandsworth, S.W.18.

## BOROUGH OF CHELMSFORD.

PATCHING HALL LANE IMPROVEMENT—RESURFACING.

FIXED-PRICE TENDERS are invited for the RESURFACING of PATCHING HALL LANE, between Gypsy Corner and the Borough Boundary. The Work consists of Laying approximately 3,050 sq. yd. of ½in. Cold Asphalt, with ½in. Granite Chippings, Wearing Course, 1,800 sq. yd. of 2½in. Bituminous Concrete Base Course, and 175 tons of Bituminous Concrete in Making-up Levels.

Drawings may be inspected at, and Condition of Contract, Specification, Bill of Quantities and Form of Tender obtained from the office of the Borough Engineer and Surveyor, Coval Lane, Chelmsford, on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned in the envelopes provided not later than 12 Noon on MONDAY, 24th April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

B. A. FRANCIS,  
Town Clerk.

Municipal Offices,  
Chelmsford.

## BOROUGH OF MARGATE.

MILLMEAD ROAD HOUSING ESTATE—STAGE 1.

TENDERS are invited from electrical contractors who are members of The National Inspection Council for Electrical Installation Contracting, for the INSTALLATION of ELECTRICITY in HOUSES and FLATS on THIS ESTATE, including the PROVISION of a COMMUNICATING SYSTEM in OLD FOLK'S FLATS.

Specification and Drawings may be obtained from the Office of the Borough Engineer, 38 Grosvenor Place, Margate.

Tenders, enclosed in plain sealed envelopes bearing no mark or name indicating the identity of the sender, and endorsed "Electrical Installation," and addressed to the Town Clerk, 40 Grosvenor Place, Margate, should be received by him not later than 12 o'clock Noon on SATURDAY, 23rd April, 1961.

T. F. SIDELL,

Town Clerk.  
Town Clerk's Office,  
40 Grosvenor Place,  
Margate.

## CITY OF WINCHESTER.

STREET LIGHTING.

WORTHY ROAD, HYDE STREET (A.3090) AND WORTHY LANE (B.3045).

TENDERS are invited for the ERECTION complete of approx. 49 LIGHTING POINTS involving 25ft. Steel Columns for 250-W Colour Corrected Mercury Lighting.

Specification, Bill of Quantities and Form of Tender may be obtained from the City Engineer and Surveyor, Guildhall, Winchester, at whose office Plans may be inspected. A deposit of £2 2s. will be required but will be refunded on receipt of a bona-fide Tender.

Tenders, in a plain envelope endorsed "Worthy Road Lighting," should be addressed to the undersigned not later than First Post on FRIDAY, 21st April, 1961.

R. H. MCCALL,

Town Clerk.  
Guildhall,  
Winchester,  
29th March, 1960.

## GOOLE RURAL DISTRICT COUNCIL.

RAWCLIFFE AND RAWCLIFFE BRIDGE SEWERAGE SCHEME.

TENDERS are invited, on a FIXED-PRICE BASIS, for the EXCAVATING, PROVIDING and LAYING of approx. 970 lin. yd. of 6in., 9in., 12in. and 15in. SEWERS and MANHOLES, and the CONSTRUCTION of TWO PUMPING STATIONS and SEWAGE DISPOSAL WORKS, and the LAYING of about 2,500 lin. yd. of 6in., 7in. and 8in. A.C. PUMPING MAIN.

Drawings may be seen at the offices of the Council's Consulting Engineers, MESSRS. FAIRBANK AND SON, 29 St. Mary's, Bootle, Mer., on and after the 10th April, 1961, during normal working hours.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Consulting Engineers on payment of Three Guineas (by cheque made payable to the Goole R.D.C.), which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Rawcliffe Sewerage Scheme," must reach the undersigned not later than 12 Noon on SATURDAY, 13th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. BULLOCK,

Clerk of the Council.  
149 Boothferry Road,  
Goole,  
Yorks.  
5th April, 1961.



## CITY OF LEEDS. CONTRACTS HIGHWAYS DEPARTMENT.

The HIGHWAYS COMMITTEE of the LEEDS CITY COUNCIL invite TENDERS for—

- (a) PRIVATE STREET WORKS.—Kerbing, Tarmacadam Footpaths, Tarmacadam Carriageways, etc., in the FOLLOWING:—  
Norfolk Close.  
Norfolk Green.  
Pinder Grove.  
Raynville Avenue (Part 2).  
Ridge Way (Part).  
Ridge Way Close.  
Whitebridge Crescent (Part).  
Whitebridge View.

- (b) THEAKER LANE REDEVELOPMENT AREA.  
General Site Clearance, Excavation and Filling, Construction of Carriageways and Footpaths, including Concrete Haunch, Hardcore Foundations, Kerbing, Tarmacadam Surfacing, Soiling, Seeding and Turfing, and other incidental works.

Forms of Tender and Bills of Quantities may be obtained upon payment of a deposit of One Guinea, which amount will be returned upon receipt of a bona-fide Tender. Plans, Specifications and copies of the documents forming the contract may be inspected upon application to the Highways Engineer, 155 Kirkstall Road, Leeds, 4.

Tenders will be considered only when submitted sealed in the envelope provided, endorsed "Highways Department—Tender for Contractors' Works," and not bearing any name or mark indicating the sender.

Tenders must be delivered at the Town Clerk's Office (Committee Department), Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on THURSDAY, the 27th April, 1961.

The lowest or any Tender will not necessarily be accepted.

W. J. HISCOCK,  
Highways Engineer.

March, 1961.

## BASILDON URBAN DISTRICT COUNCIL. IMPROVEMENT OF A.129 SOUTHERN ROAD AT SHOTGATE BRIDGE.

TENDERS will shortly be invited for THIS IMPROVEMENT, consisting of Widening and Raising approx. 200 yds. of Carriageway, Drainage, Bituminous Concrete Foundations, Kerbing, Tarmacadam Footway and Gravel Asphalt Carriageway Surfacing are required.

Contractors should submit their names, together with those of two referees for whom they have recently carried out similar works, to the ENGINEER AND SURVEYOR, Council Offices, 89 Town Square, Basildon, Essex, within seven days of this advertisement.

## SADDLEWORTH URBAN DISTRICT COUNCIL.

### SUPPLY OF A LIGHT MOTOR VAN.

The Council invite TENDERS for the SUPPLY and DELIVERY of a LIGHT VAN, of 7cwt. to 8cwt. carrying capacity, suitable for general light carrying work.

Offers are also invited for a Bedford Warkobus (1956) at present owned by the Council, to be taken in part exchange. Arrangements to inspect this vehicle can be made during ordinary working hours. Specification and any further particulars required may be obtained from B. CASTLE, M.I.Mun.E., Engineer and Surveyor, Council Offices, Uppermill, Oldham.

Tenders, endorsed "Tender for Motor Van," must be delivered to the undersigned, in plain sealed envelope which must not bear any name or mark indicating the sender, not later than Noon on MONDAY, the 1st May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

T. NUTTALL,  
Clerk of the Council.

Council Offices,  
St. Chad's,  
Uppermill, Oldham.

## NORTHWICH RURAL DISTRICT COUNCIL.

### HOUSING TENDERS.

The Northwich Rural District Council invite TENDERS for the ERECTION of 12 DWELLINGS on a SITE on OULTON MILL LANE, COTEBROOK, UKINTON.

Copies of the Specification, Plans, etc., may be obtained from the Engineer and Surveyor, Whitehall, Hartford, Northwich, upon payment of Two Guineas which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Sealed Tenders, in the envelope supplied, bearing no name or mark indicating the sender, must be delivered not later than 10 a.m. on THURSDAY, the 4th of May, 1961, to the CLERK of the COUNCIL, Whitehall, Hartford, Northwich, Cheshire.

## SAINT IVES RURAL DISTRICT COUNCIL.

### SEWERAGE AND SEWAGE DISPOSAL.

TENDERS are invited from experienced contractors for MAIN DRAINAGE WORKS in the PARISHES of HOUGHTON AND WYTON, HEMINGFORD ABBOTS, and HEMINGFORD GREY, comprising the Laying of approx. 19,029 yds. of Small Diameter Sewers and Rising Main, and the Construction of eight Small Pumping Stations, a Sewage Disposal Works, and other ancillary work.

Particulars and Specifications may be obtained from, and Plans may be inspected at, the Offices of the Council's Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, West Street, Epsom, Surrey, on and from Monday, 17th April, 1961, until Friday, 12th May, 1961, between the hours of 10 a.m. and 4 p.m., upon payment of a deposit of Five Guineas by cheque payable to Saint Ives Rural District Council which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents. Prints of the Contract Drawings can be obtained on loan from the Consulting Engineers on payment of Three Guineas. All prints so supplied are to be returned.

Tenders, on the official form and in the sealed envelopes provided, endorsed "Tender for Main Drainage of Houghton, Wyton and the Hemingfords," but bearing no name or other mark indicating the sender, must be delivered to the undersigned not later than Noon on WEDNESDAY, 24th May, 1961.

The Council does not bind itself to accept the lowest or any Tender and acceptance will be subject to the approval of the Ministry of Housing and Local Government.

E. A. N. JONES,  
Clerk of the Council.

Council Offices,  
Priory Road,  
Saint Ives, Hunts.  
4th April, 1961.

## BOROUGH OF NUNEATON. CONTRACTS WEDDINGTON SEWAGE PUMPING MAIN.

TENDERS are invited from experienced contractors for the LAYING of about 800 lin. yd. of 10 in. C.I. PUMPING MAIN, and the Construction of Ancillary Works.

Drawings can be inspected, and Contract documents can be obtained, from the Borough Engineer, on payment of a deposit of Two Guineas, returnable on receipt of a formal Tender.

Tenders, in the prescribed form, must be received by the undersigned not later than 10 a.m. on MONDAY, 24th April, 1961.

A. A. CRABTREE,  
Town Clerk.

Council House,  
Nuneaton.

## BOROUGH OF STOURBRIDGE.

### SURFACE WATER CULVERTS.

- (1) PEDMORE LANE TO QUARRY POOL.
- (2) SWAN STREET TO RIVER STOUR.

Contractors possessing the necessary experience and plant, and wishing to TENDER for the ABOVE SCHEMES, are invited to submit their names to the undersigned by 28th APRIL, 1961.

Scheme 1 consists of approx. 1,040 lin. yd. of Reinforced Concrete Pipes of between 24 in. and 45 in. dia., together with Brick Manholes and incidental works.

Scheme 2 consists of approx. 470 lin. yd. of 57 in. dia. and 190 lin. yd. of 54 in. dia. Reinforced Concrete Pipes, together with 20 lin. yd. of Reinforced Concrete Box Culvert, Brick Manholes, and other incidental works.

Applications must be accompanied by a list of schemes of a similar nature that have recently been carried out by the contractor.

Drawings may be inspected at the Office of the undersigned.

H. W. MORRIS, B.Sc.(Eng.), A.M.I.C.E.  
Borough Engineer and Surveyor.

Council House,  
Stourbridge.  
5th April, 1961.

## BUSHEY URBAN DISTRICT COUNCIL.

### PROPOSED ADDITIONAL SURFACE WATER SEWER.

TENDERS are invited for the CONSTRUCTION of 185 lin. yd. of 18 in. diameter SURFACE WATER SEWER, MANHOLES and incidental Works at HARCOURT ROAD/MOATFIELD ROAD, Bushey, Herts.

Plans and Conditions of Contract may be inspected, and Form of Tender, Specification and Bills of Quantities obtained, from the Engineer and Surveyor at the address below on payment of a deposit of £2 2s., refundable on receipt of a bona-fide Tender. Tenders, in plain envelopes endorsed "Additional Surface Water Sewer," must be received by me not later than 12 Noon on TUESDAY, 25th April, 1961. The Council do not bind themselves to accept the lowest or any Tender.

C. G. EVERATT,  
Clerk of the Council.

Council Offices,  
Rushdell Road,  
Bushey,  
Herts.

## NEWTON ABBOT URBAN DISTRICT COUNCIL.

### SURVEYOR'S DEPARTMENT.

#### TARSPRAYING.

Contractors are invited to TENDER for the TARS-PRAYING of CLASSIFIED and UNCLASSIFIED ROADS in the Urban District.

The area involved is approx. 54,000 sq. yd. Particulars and Tender Form may be obtained from the Surveyor, 18 Devon Square, Newton Abbot.

H. EVANS,  
Clerk of the Council.

Town Hall,  
Courtenay Street,  
Newton Abbot.  
13th April, 1961.

## CHESTER-LE-STREET RURAL DISTRICT COUNCIL.

### BARLEY MOW AREA.

### SEWERAGE AND SURFACE-WATER DRAINAGE. TO SEWERAGE CONTRACTORS.

The above Council invite TENDERS on a Fixed-price Basis for the FURNISHING and LAYING of about 6,300 lin. yd. of 48 in. down to 6 in. dia. CONCRETE PIPE SEWERS and Surface Water Drains, complete with Manholes and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. D. BALFOUR AND SONS, Consulting Engineers, Caledonian Buildings, 145 Pilgrim Street, Newcastle upon Tyne, 1, Engineers for the work, accompanied by a cheque for £5 made payable to the above Council, not later than 29th APRIL, 1961, after which full particulars will be forwarded.

The deposit will be returned on receipt of a bona-fide Tender and on return of all particulars after the Contract is let. It is essential that the contractor should have had considerable experience in similar works and be prepared to furnish good and approved security for the fulfilment of the Contract.

Tenders, in plain sealed envelopes endorsed "Tender for Barley Mow Area Sewerage and Surface Water Drainage," must be posted to reach the undersigned by a date to be given by the Engineers. The Council do not bind themselves to accept the lowest or any Tender.

J. SANDERS,  
Clerk of the Council.

Union Offices,  
Chester-Le-Street,  
Co. Durham.  
5th April, 1961.

## EAST SUFFOLK STANDING JOINT COMMITTEE.

### ERECTION OF POLICE HOUSE AT EYE.

Building contractors are invited to apply to TENDER for the ERECTION of ONE POLICE HOUSE at EYE. Applications should be made to the County Architect, MR. E. J. CUNDLIFFE, A.R.I.B.A., County Hall, Ipswich, before the 18th April, 1961; each must be accompanied by a deposit of £2 2s. (cheques payable to the East Suffolk County Council), returnable on receipt of Tender.

Specifications and Drawings will be sent out on 20th April for Fixed-price Tenders required by the 5th MAY, 1961.

## RADNORSHIRE COUNTY COUNCIL. CONTRACTS ERECTION OF NEW FARM HOUSES, ETC.

TENDERS are invited for the ERECTION of NEW FARM HOUSES and ADAPTATION of EXISTING FARM BUILDINGS at the NEUADD FARM, Bledfa, Knighton, and LLANWEN FARM, Knighton.

Tender documents may be obtained from the County Land Agent, County Hall, Llandrindod Wells, upon payment of a deposit of £2 2s. for each of the documents. The deposit to be refunded on receipt of a bona-fide Tender. Cheques to be payable to the Radnorshire County Council and crossed "and Co." No Tender will be considered unless sent in a plain sealed envelope addressed to the undersigned, bearing the words "Tender(s) for New Farm House(s), etc., at Neuadd, Bledfa and/or Llanwen, Knighton," but devoid of any name or mark indicating the sender, and delivered not later than 6th MAY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

D. C. S. LANE,  
Clerk of the Council.

County Hall,  
Llandrindod Wells.

## METROPOLITAN BOROUGH OF ISLINGTON.

TENDERS are invited for the SUPPLY of 160 dozen DOUBLE WARE COTTON TURKISH TOWELS to ISLINGTON PUBLIC BATHS.

Forms of Tender, Specification, etc., may be obtained from the Chief Superintendent, Hornsey Road Baths, N.7.

Tenders, in the specially marked envelope provided, must be delivered to the Town Clerk, Town Hall, Upper Street, N.1, not later than 12 Noon on WEDNESDAY, 3rd May, 1961.

H. DIXON CLERK,  
Town Clerk.

Town Hall,  
Upper Street,  
London N.1.  
5th April, 1961

## METROPOLITAN BOROUGH OF WANDSWORTH.

### CONSTRUCTION OF MANHOLES.

Contractors wishing to TENDER for the CONSTRUCTION of 40 PRECAST CONCRETE TUBE MANHOLES should submit names to me by 19th APRIL, 1961, giving names of two technical and two financial referees.

Tender documents will be issued to selected contractors in due course.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

## BOROUGH OF TOTTENHAM.

### MARKFIELD ESTATE—CONTRACT "D."

ERECTION OF 112 DWELLINGS IN FOUR BLOCKS, INCLUDING ONE BLOCK 13 STOREYS HIGH.

TENDERS are invited from firms capable of undertaking the whole Contract, including Reinforced Concrete Construction. Applicants to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than MONDAY, 1st May, 1961, quoting "C.J.", together with £2 2s. deposit, which will be refundable upon the submission of a bona-fide Tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposits, copies of the Bills of Materials, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

M. LINDSAY TAYLOR,  
Town Clerk.

## BANSTEAD URBAN DISTRICT COUNCIL.

### COLD ASPHALT SURFACING OF SECTION OF CARRIAGEWAY, HOLLY LANE, BANSTEAD.

TENDERS are invited for the SUPPLY and LAYING by MACHINE SPREADER of approximately 100 tons of FINE COLD ASPHALT SLAG AGGREGATE, with the necessary quantity of Precast Granite Chippings, all in accordance with B.S.1590.

Tender documents may be obtained from, and Conditions of Contract may be inspected at, the office of the Engineer and Surveyor, Council Offices, Brighton Road, Banstead, Surrey, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Resurfacing—Holly Lane," must be returned to the undersigned not later than MONDAY, the 1st May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

F. L. SHAW,  
Clerk of the Council.

The Council House,  
Brighton Road,  
Banstead.

## FRIMLEY AND CAMBERLEY URBAN DISTRICT COUNCIL.

### SEWAGE DISPOSAL WORKS EXTENSIONS.

#### CONTRACT NO. 8.

The Council invite TENDERS from experienced public works contractors having substantial previous experience of similar works, for EXTENSIONS to SEWAGE DISPOSAL WORKS, comprising Grit Tank, two 70 ft. dia. Settlement Tanks, 45 ft. long Rectangular Bacteria Bed, 60 ft. dia. Humus Tank, Sludge Digestion Tank, Sludge Beds, Pumping Stations, and other incidental works.

The Drawings can be inspected at, and copies of the Specification, Bills of Quantities and Form of Tender can be obtained from, the Engineers, MESSRS. WILCOX, RAIKES AND MARSHALL, 33, Great Charles Street, Birmingham, 3, on or after 13th April, 1961, on application, accompanied by a statement of previous similar works executed and a cheque for 10 Guineas drawn in favour of the Council, as a deposit which will be refunded after delivery of a bona-fide Tender and the return of all documents supplied.

Tenders, on the form supplied, are to be delivered to the undersigned not later than 12 o'clock Noon on MONDAY, 15th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 1st day of April, 1961.

(Signed) K. S. HARVEY,  
Clerk of the Council.

Municipal Buildings,  
Camberley,  
Surrey.



## CONTRACTS

**BOROUGH OF WIMBLEDON.**  
HEATING AND VENTILATION—TOWN HALL AND PUBLIC HALL.

TENDERS are invited for the REPLACEMENT of the EXISTING BOILERS with NEW AUTOMATICALLY CONTROLLED OIL-FIRED BOILERS (4 x 1m. 8.T.H.U.), complete with all Ancillary Equipment. Modifications to the Ventilation Plant, etc.

Documents from Borough Engineer, Town Hall, Wimbledon, S.W.19, on payment of £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

FRANCIS J. O'DOWD,  
Town Clerk.

Town Hall,  
Wimbledon, S.W.19.

**BOROUGH OF WOOD GREEN.**  
ERECTION OF FLATS.

The COUNCIL invite TENDERS on a Fixed-price Basis for the ERECTION OF EIGHT ONE-BEDROOM FLATS at WILLIAMS GROVE, Wood Green.

Bills of Quantities, Forms of Tender, etc., may be obtained from the Borough Engineer at the address below (where Conditions of Contract may also be inspected), upon payment of a deposit of £1 1s. which will be returned on submission of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Erection of Flats," but with no name or mark indicating the sender, must be delivered to the undersigned not later than Noon on the 5th MAY, 1961.

G. W. PLATER,  
Town Clerk.

Town Hall,  
Wood Green, N.22,  
29th March, 1961.

**CITY OF HEREFORD.**

## PROSPECT FARM HOUSING ESTATE.

The COUNCIL invite TENDERS for the CONSTRUCTION OF ROADS AND SEWERS for the ABOVE ESTATE.

The works comprise the following: The Provision of Foul and Surface Water Sewers, Kerbing, Channelling, Pitched Foundation, Tarmacadam Surfacing, and all incidental works. Carriageway area approx. 9,300 sq. yd.

Drawings may be seen at, and Tender documents obtained from, the Office of the City Surveyor, Town Hall, Hereford, upon deposit of Two Guineas in each case, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in envelopes provided, and bearing no mark or indication of the sender, must be delivered to me not later than 9 a.m. on MONDAY, 24th April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. WESTON,  
Town Clerk.

Town Hall,  
Hereford,  
April, 1961.

**FULWOOD URBAN DISTRICT COUNCIL.**CONSTRUCTION OF RELIEF SEWER—  
GARSTANG ROAD.

TENDERS are invited for the ABOVE WORK, which involves the Laying of approx. 600yds. each of 18in. dia. and 12in. dia. Precast Concrete Pipes, together with Precast Concrete Manholes, and ancillary works.

Form of Tender and other documents may be obtained from the Engineer and Surveyor on payment of a deposit of £2 2s. which will be returned on receipt of a bona-fide Tender.

Tenders, in envelopes provided, bearing no mark or indication of the sender, endorsed "Relief Sewer—Garstang Road," should be delivered to the undersigned not later than 10 a.m. on SATURDAY, the 15th May, 1961.

The Council does not undertake to accept the lowest or any Tender.

R. D. S. COTMAN,  
Clerk of the Council.

Council Offices,  
Garstang Road,  
Fulwood,  
Near Preston, Lancs.

**HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.**

The Urban District Council of Havant and Waterloo invite TENDERS for the CONSTRUCTION OF THREE NON-ATTENTION HARD TENNIS COURTS, with 9ft. high Chain Link Fencing, the Laying of Surface Water Drains, and other incidental works, at FRONT LAWN RECREATION GROUND, Havant.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom the Specification, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the words "Tender for Tennis Courts," but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on MONDAY, 1st May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

**HEBBURN URBAN DISTRICT COUNCIL.**PART 104—DWELLINGS—CENTRAL AREA  
REDEVELOPMENT  
IN RESPECT OF 24 FLATS AND 24 MAISONNETTES  
TO BE BUILT IN THREE BLOCKS  
THREE STOREYS HIGH.

TENDERS are invited for the UNDERMENTIONED SUB-CONTRACTS in connection with the ERECTION of the ABOVE HOUSES by Direct Labour:

- (1) Plumbing.
- (2) Electrical Installation.
- (3) Plastering.

Drawings and Conditions of Contract may be seen at the Office of the Engineer and Surveyor, Council Offices, Argyle Street, Hebburn, from whom Specification, etc., and Forms of Tender may be obtained on payment of a deposit of Three Guineas which will be returned on receipt of a bona-fide Tender.

Tenders must be sent in a plain sealed envelope, without any name or mark indicating the sender, and endorsed "Plumbing," etc., as the case may be, and must be delivered to the undersigned not later than Noon on TUESDAY, 5th May, 1961.

The Council does not bind itself to accept the lowest or any Tender.

W. KINGHORN,  
Clerk to the Council.

Council Offices,  
Argyle Street,  
Hebburn, Co. Durham.

## CONTRACTS

**KENT COUNTY COUNCIL.**

## BARMING BRIDGE, NEAR MAIDSTONE.

TENDERS are invited from specialist firms, by not later than 1st MAY, 1961, for STRENGTHENING the ERODED AND DECAYED TIMBER PILES and Lintels of BARMING BRIDGE above bed level, by Totally Encasing with Reinforced Concrete Shells.

Particulars obtainable from COUNTY SURVEYOR, County Hall, Maidstone.

**DORSET COUNTY COUNCIL.**

## AMBULANCE SERVICE UNIFORMS.

The Dorset County Council invite TENDERS for the SUPPLY OF CLOTHING for the Dorset County Ambulance Service.

Forms of Tender, showing types and approx. quantities required, may be obtained from the County Medical Officer, County Hall, Dorchester.

Sealed Tenders, endorsed "Tender for Ambulance Service Clothing," must be received by me by the 28th APRIL, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

A. C. TEMPLEMAN,  
Clerk of the County Council.

County Hall,  
Dorchester,  
Dorset.

4th April, 1961.

**COUNTY BOROUGH OF ROTHERHAM.**

## AMENDED ADVERTISEMENT.

## WEST BAWTRY ROAD IMPROVEMENT.

TENDERS are invited from experienced contractors for the WIDENING, REALIGNMENT AND RECONSTRUCTION of approx. 350 lin. yd. of WEST BAWTRY ROAD, A.631, within the County Borough of Rotherham, to an overall width of 60ft., including Earthworks, Foundations, and Dense Bituminous Macadam Surfacing, Kerbing, Flagging, Surface Water and Subsoil Drainage, Fencing, Grass Verges, and ancillary works.

Specifications and Bills of Quantities may be obtained from E. J. MANSON, B.Eng., A.M.I.C.E., Borough Engineer, Municipal Offices, Howard Street, Rotherham, on payment of a deposit of £5 5s. (Five Guineas) which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected and other information obtained at the Offices of the Borough Engineer during normal working hours.

Tenders, together with fully priced Bills of Quantities, must be inspected and other information obtained at the Offices of the Borough Engineer during normal working hours.

Tenders, together with fully priced Bills of Quantities, must be delivered to the undersigned not later than 10 a.m. on FRIDAY, 28th April, 1961.

The Council does not bind itself to accept the lowest or any Tender.

JOHN S. WALL,  
Town Clerk.

Municipal Offices,  
Howard Street,  
Rotherham.

5th April, 1961.

**BOROUGH OF GRAVESEND.**

## PRIVATE STREET WORKS.

## HIGHWAYS ACT, 1959, SECTION 189.

## ORCHARD AVENUE AND BRENCHLEY AVENUE.

FIXED-PRICE TENDERS, returnable by 15th MAY, 1961, are invited for the GRADING AND SURFACING OF CARRIAGEWAYS IN BITUMINOUS MACADAM of 6,100 sq. yd. of CARRIAGEWAY and 2,800 sq. yd. of FOOTPATH CROSSINGS; LIGHTING and accommodation works. Tender documents from BOROUGH ENGINEER AND SURVEYOR, 6 Woodville Terrace, Graysend, Kent.

**BOROUGH OF KETTERING.**WEEKLEY GLEBE PLAYING FIELD  
CHANGING ROOMS.

FIXED-PRICE TENDERS are invited for the ERECTION OF THE ABOVE CHANGING ROOMS.

Forms of Tender and Bills of Quantities may be obtained from, and Plans inspected at, the Office of the Borough Engineer and Surveyor, 3 Gold Street, Kettering.

A deposit of Two Guineas is required, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, enclosed in a plain sealed envelope endorsed "Changing Rooms—Weekley Glebe," are to be returned to the undersigned not later than 12 Noon, MONDAY, 1st May, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

(Signed) D. DUNSFORD PRICE,  
Town Clerk.

Town Clerk's Office,  
Huxloe Place,  
High Street,  
Kettering.

**WEST KESTOVEN RURAL DISTRICT COUNCIL.**

## LONG BENNINGTON SEWERAGE AND SEWAGE DISPOSAL SCHEME.

TENDERS are invited from experienced civil engineering contractors for the LAYING OF about 5,500yds. of 6in. and 9in. dia. PIPE SEWERS, 1,800yds. of 15in. SPUN-IRON PIPE RISING MAINS, and the Construction of two Pumping Stations and a Sewage Disposal Works comprising Settlement Tank, Bacterial Filter 55ft. dia., Humus Tank, Sludge Drying Beds and Pumping Station, near Long Bennington, about eight miles north-west of Grantham.

Plans, Specification and Bills of Quantities may be seen at the Offices of the Council's Consulting Engineer, MESSRS. ELIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Quantities and Form of Tender may be obtained from them on deposit of Five Guineas (by cheque payable to the West Kesteven R.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn, and return of all documents loaned to the contractor within seven days of notice informing him that a Tender has been accepted.

Tenders, endorsed "Long Bennington Sewerage," should be delivered to me at Sandon Close, Grantham, in plain sealed envelopes, not later than the First Post on FRIDAY, 19th May, 1961.

The lowest or any Tender will not necessarily be accepted.

Acceptance of Tender will be subject to the final approval of the Ministry of Housing and Local Government. Work to be commenced immediately such approval is received.

J. R. MORGAN,  
Clerk of the Council.

## CONTRACTS

**COUNTY OF KINCARDINE.**PERTH-ABERDEEN-INVERNESS TRUNK ROAD,  
ROUTE A.92.

CORTENS-BRIDGE OF MUCHALLS IMPROVEMENT AND IMPROVEMENT NEAR COWIE HOUSE.

TENDERS are invited, on a Fixed Basis, for the IMPROVEMENTS AND DIVERSIONS OF THE ABOVE TRUNK ROAD at locations respectively four miles and one mile north of Stonehaven. The two Schemes, although geographically three miles apart, are interdependent and will be let as one Contract.

The work comprises Earthworks and the Forming, Bottoming and Surfacing of approx. 1,200 lin. yd. of Dual Carriageway and 800 lin. yd. of Single Carriageway, including the Construction of a large Reinforced Concrete Bridge Culvert, and ancillary works.

Forms of Conditions of Tender, Conditions of Contract, Specification and Bills of Quantities may be obtained from the County Road Surveyor, Viewmount, Stonehaven, at whose Office copies of the Drawings can be seen.

An Engineer will meet intending offerers on the site at Cortens-Bridge of Muchalls Improvement at 10.30 a.m. on Monday, 24th April, to point out the proposed works.

Tenders, endorsed "Cortens-Bridge of Muchalls and Cowie House Improvement Schemes," should be lodged with the COUNTY CLERK, 33 Evan Street, Stonehaven, by 12 Noon on FRIDAY, 12th May.

**DEVON COUNTY COUNCIL.**

TENDERS are invited for PAINTING FOUR BRIDGES.

Particulars and Tender Forms, returnable by 18th MAY, 1961, from COUNTY SURVEYOR, Coaver, Topsham Road, Exeter.

**COUNTY BOROUGH OF BURY.**

## PARR BROOK AND MANCHESTER ROAD SEWERS.

TENDERS, on a Fixed-price Basis, are invited for the CONSTRUCTION of the ABOVE SEWERS, comprising approx. 4,500 lin. yd. of 27 1/2 in. dia. Pipes laid partly in tunnel and including a Steel Pipe River Crossing, Reinforced Concrete Works, Storm Water Overflows and ancillary works.

Tender documents obtainable from Borough Engineer on payment of £5 5s., returnable to contractors who submit a bona-fide Tender. Contract Drawings may be inspected at Borough Engineer's Office.

Only contractors experienced in this type of work will be considered, and a list of recent similar works executed must be submitted with the Tender.

Tenders, enclosed in official envelope provided, must reach me by 18th MAY, 1961.

EDWARD S. SMITH,  
Town Clerk.

Town Hall,  
Bury.

4th April, 1961.

**BOROUGH OF HESTON & ISLEWORTH.**INSTALLATION OF WASH-HAND BASINS IN 74  
HOUSES ON NAZARETH ESTATE, ISLEWORTH.

TENDERS are invited, on Forms of Tender to be obtained from the Housing Officer and Manager, Housing Department, Treaty Road, Hounslow, Middlesex.

Tenders, in sealed envelopes not indicating the tenderer, endorsed "Nazareth Estate—Installation of Wash-hand Basins," must be delivered to me by 10 a.m., 1st MAY, 1961.

The Corporation are not bound to accept any Tender.

D. MATHIESON,  
Town Clerk.

Town Hall,  
Hounslow,  
Middlesex.

**BOROUGH OF WIDNES.**

## PAINTING OF SCHOOL PREMISES.

FIXED-PRICE TENDERS are invited for PAINTING and DECORATING VARIOUS SCHOOL PREMISES in the Borough.

Specification and Form of Tender obtainable from the Borough Architect, Brendan House, Widnes Road, Widnes.

Tenders, in special envelope provided, must be delivered to the undersigned not later than 10 a.m. on FRIDAY, 19th May, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

FRANK HOWARTH,  
Town Clerk.

Town Hall,  
Widnes.

4th April, 1961.

**INCE-IN-MAKERFIELD URBAN DISTRICT COUNCIL.**

## SURFACE DRESSING.

TENDERS are invited for SURFACE DRESSING for the year 1961/62.

Specifications may be obtained from, and Conditions of Contract inspected on application to, the Surveyor, Town Hall, Ince, near Wigan.

Tenders, in plain sealed envelopes suitably endorsed and bearing no indication of the sender, should be received by the undersigned not later than 12 Noon on SATURDAY, the 6th May, 1961.

The Council does not bind itself to accept the lowest or any Tender.

T. B. BARNES,  
Clerk of the Council.

Town Hall,  
Ince-in-Makerfield,  
Wigan.

12th April, 1961.

**CRAWLEY URBAN DISTRICT COUNCIL.**

## COUNCIL OFFICES AND COUNCIL SUITE.

Contractors who wish to be considered for inclusion in a selected list of TENDERS for the ERECTION of COUNCIL OFFICES (including Council Suite) at THE BOULEVARD, Crawley, are asked to send their names to me not later than the 3rd day of MAY, 1961.

The Architects for the Scheme are SIR JOHN BROWN, A. E. HEPSON AND PARTNERS.

Tendering documents will be sent to contractors selected by the Council from the applicants, and the Council may add other contractors to the selected list.

R. W. J. TRIDGELL,  
Clerk of the Council.

Robinson Road,  
Crawley,  
Sussex.

6th April, 1961.



## CONTRACTS

## LANCASHIRE COUNTY COUNCIL.

TENDERS are to be invited from selected firms for DEVELOPMENT OF PLAYING FIELDS, etc., at the FOLLOWING:-  
Darwen St. Cuthberts C.E. Primary School.  
Eccles Day Special School.  
Fulwood R.C. Secondary School.  
Stretford St. Annes R.C. Primary School.  
Applications for documents to tender must be received by the COUNTY ARCHITECT, P.O. Box 26, County Hall, Preston, not later than MONDAY, 24th April, 1961.

## EAST SUFFOLK COUNTY COUNCIL.

BRADWELL (NEAR GREAT YARMOUTH) SURFACE WATER DRAINAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 1,280 lin. yd. of SURFACE WATER SEWER varying in diameter from 9 in. to 33 in., and including Manholes and Gullies. Also included are Ditch Works, Fencing, and the Construction of Access Bridges.  
Tender documents from COUNTY SURVEYOR, County Hall, Ipswich; deposit £5.  
Tenders not later than 10 a.m., MONDAY, 15th May, 1961.

## COUNTY BOROUGH OF HALIFAX.

## PRIVATE STREET WORKS.

SPRINGWOOD AVENUE AND RIVERWOOD DRIVE, COPLEY LANE.

TENDERS, based on Fixed-price Rates, are invited for the MAKING-UP OF THESE STREETS.  
Details from the BOROUGH ENGINEER, Crossley Street, Halifax, on deposit of Two Pounds (cheques payable to Halifax Corporation), returnable on receipt of a bona-fide Tender not subsequently withdrawn.

## BOROUGH OF GOSPORT.

## RECONSTRUCTION OF EASTERN END OF DAISY LANE.

TENDERS are invited for the LAYING of approx. 130 lin. yd. of PRECAST CONCRETE KERBS and Channels, 415 sq. yd. of LEAN-MIX CONCRETE and BITUMEN MACADAM CARRIAGEWAY, 340 sq. yd. of ASPHALT AND CONCRETE FOOTWAY, and 115 sq. yd. of TURF, together with Excavation and Appurtenant Works in connection with the ABOVE.  
Tender documents are obtainable from the Borough Engineer, The Hall, Trinity Green, Gosport, upon deposit of Two Guineas, returnable on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tender Forms shall be submitted to me, in the small endorsed envelope provided, and should bear no mark indicating the sender. The priced Bills of Quantities should at the same time be submitted to me, in the large endorsed envelope provided, and should bear the name of the tenderer. Both envelopes must reach my Office not later than the First Post on FRIDAY, 21st May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.  
EDWARD ADDENBROOKE,  
Town Clerk.  
Town Hall, Gosport.

## CITY OF BIRMINGHAM.

## TO BUILDING CONTRACTORS.

CONTRACT 732—TWO DWELLINGS AND 13 LOCK-UP GARAGES—LITTLE HALL ROAD, NECHILLS GREEN.  
CONTRACT 753—29 2-STORY DWELLINGS—WILLASTON ROAD, ELMS ESTATE, SHELDON.

The HOUSEBUILDING COMMITTEE invite TENDERS for the ERECTION OF THE ABOVE.  
Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each Contract at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 18th APRIL, 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.  
The deposits will be returned on receipt of bona-fide Tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on THURSDAY, 18th May, 1961. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.  
T. H. PARKINSON,  
Town Clerk.  
Council House, Birmingham, 1.

## CITY OF PETERBOROUGH.

## ANNUAL SURFACE DRESSING CONTRACT, 1961.

Approx. 100,000 sq. yd. Documents from City Engineer, Town Hall, Peterborough, £2 deposit.  
Tenders to be received before 10 a.m., 26th APRIL, 1961.

C. PETER CLARKE,  
Town Clerk.

Town Hall,  
Peterborough,  
April, 1961.

## CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY of the FOLLOWING:-

- 1,000 85-W Totally Enclosed Sodium Lanterns complete with Auxiliary Equipment in the hood.
- 650 Traction Pole Bracket Sleeves.

Tender Forms, returnable by 2nd MAY, 1961, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF LIVERPOOL.

TENDERS invited for the SUPPLY and DELIVERY of the FOLLOWING:-

- One 20-ton Low-loading Drop-frame Semi-Trailer.
- One Heavy Duty Diesel-engined Tractor.
- One 15 50-h.p. Diesel-engined Crawler Tractor, complete with Hydraulically operated Angledozing Equipment.

Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders returnable by 26th MAY, 1961.  
(1.6742)

THOMAS ALKER,  
Town Clerk.

## CONTRACTS

## MONMOUTHSHIRE COUNTY COUNCIL.

## TENDERS FOR KERBING AND PAVING.

TENDERS are invited by the Council for KERBING, PAVING, and other Miscellaneous Works in connection with Highway Maintenance for Trunk and County Highways throughout the County.  
Application for Tender documents in connection with these works may be made to the County Surveyor, "Stelvio", Bassaleg Road, Newport, and must be returned to the undersigned, in a plain sealed envelope bearing no indication of the sender, endorsed "Tender for Kerbing and Paving Works, etc.", such Tenders to be returned not later than 12 Noon on the 26th APRIL, 1961.

VERNON LAWRENCE,  
Clerk of the Council.

County Hall,  
Newport, Mon.

## BOROUGH OF LOWESTOFT.

## HIGHWAYS ACT, 1959.

## MAKING-UP OF DELL ROAD.

TENDERS are invited for the ABOVE WORK, comprising the FOLLOWING:-  
Making-up of approx. 3,500 super. yd. of Hard-core and Gravel Asphalt Carriageway, 1,100 lin. yd. Kerb, 1,700 super. yd. Concrete Flag Paving, together with Concrete In-situ Channel, and other ancillary works.

Drawings and Conditions of Contract will be available for inspection at the Borough Engineer's Office, 49 High Street, Lowestoft, and Form of Tender, Specification and Bills of Quantities can be obtained from the Borough Engineer upon payment of a deposit of Two Guineas which will be refunded upon the receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders must be delivered to the undersigned not later than 12 Noon on FRIDAY, 12th May, 1961. No Tender will be accepted unless in a sealed envelope endorsed "Tender—Making-up of Dell Road, Lowestoft," and bearing no mark or writing by which the tenderer can be identified.

The Council do not bind themselves to accept the lowest or any Tender.  
F. B. NUNNEY,  
Town Clerk.  
Town Hall, Lowestoft, 6th April, 1961.

## BOROUGH OF BACUP.

## SURFACE WATER SEWER.

TENDERS are invited for the CONSTRUCTION of a SURFACE WATER SEWER 9 in. dia., approx. 70 yd. in length, from ROSE HILL STREET to BANKSIDE LANE.

Contract documents may be obtained from the Borough Engineer, Municipal Offices, Bacup, on payment of £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.  
Tenders, in plain sealed envelopes endorsed "Surface Water Sewer," must be delivered to me not later than Noon on TUESDAY, 2nd May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.  
A. D. BOND,  
Town Clerk.  
Municipal Offices, Bacup.

## BOROUGH OF ROMFORD.

## GRASS CUTTING EQUIPMENT.

TENDERS are invited for the FOLLOWING:-  
Five 24 in. Hayter Rotary Scythes.  
One Set Ransomes Gang Mowers (three units for use with Ferguson Industrial type Tractor fitted Hydraulic Power Lift).

Particulars and Conditions, together with Tender Forms, obtainable from the Borough Engineer and Surveyor, Town Hall, Romford.  
Completed forms to be delivered to the TOWN CLERK by MONDAY, 24th April, 1961.  
6th April, 1961.

## BOROUGH OF TWICKENHAM.

## HAMPTON ROAD, TEDDINGTON.

The CORPORATION hereby invite TENDERS for the RECONSTRUCTION and the REALIGNMENT OF HAMPTON ROAD, Teddington (A.313).

The works comprise the Construction of approx. 1,700 super. yd. of Lean-mix Concrete Carriageway Surfaced with Hot Rolled Asphalt, and ancillary works.

Plans may be inspected, and Specification, etc., obtained upon application to the Borough Engineer, Municipal Offices, York House, Twickenham, and the payment of Two Guineas deposit, returnable on receipt of a bona-fide Tender.

Tenders, in envelopes supplied and not bearing any name or mark indicating the sender, to be delivered to the undersigned not later than 10 a.m. on MONDAY, 1st May, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,  
Town Clerk.

Municipal Offices,  
Twickenham.

## CITY AND COUNTY OF BRISTOL.

PASSAGE ROAD IMPROVEMENT.  
(ALTERNATIVE TO FILTON BY-PASS.)

TENDERS invited for CONSTRUCTION of approx. one mile of DUAL CARRIAGEWAY at PASSAGE ROAD, Brentry.

Work includes Machine Laying of 30,000 sq. yd. of Concrete Carriageways, Flagged Footpaths, Verges, Drainage Works, Construction of a Reinforced Concrete Box Culvert, and other ancillary works.  
Copies of Conditions of Contract, Specification and Bill of Quantities obtainable, and Plans to be seen, at Offices of City Engineer and Planning Officer, Cabot House, Deanery Road, Bristol, 1.

Tenders, enclosed in envelope provided, endorsed "Passage Road Improvement," but bearing no mark indicating sender, to CITY ENGINEER AND PLANNING OFFICER by 10 a.m., 12th MAY.

## CITY OF MANCHESTER.

## HOUSING COMMITTEE.

TENDERS are invited (returnable Noon, 27th APRIL, 1961) for DEMOLITION and CLEARANCE of 1,076 PREMISES, including Houses, Shops, Licensed Premises, etc., in the RUSHOLME ROAD, CHORLTON-ON-MEDLOCK CLEARANCE AREA.  
Documents obtainable from the DIRECTOR OF HOUSING, Town Hall, Manchester, 2.

## CONTRACTS

## COUNTY BOROUGH OF CROYDON.

## SUPPLY OF TRAFFIC SIGNS.

TENDERS are invited for the SUPPLY of TRAFFIC SIGNS.  
Details and Tender Forms from the Borough Engineer, Town Hall, Croydon.  
Closing date for Tenders: 5th MAY, 1961.

E. TABERNER,  
Town Clerk.

## BOROUGH OF LOWESTOFT.

TENDERS are invited for the SUPPLY and MECHANICAL SPRAYING of approx. 14,000 gallons of TYPE "A" ROAD TAR on VARIOUS ROADS and STREETS within the Borough.

Details of the work can be obtained from the Borough Engineer's Office, 49 High Street, Lowestoft, upon payment of a deposit of One Pound which will be refunded upon the receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned not later than 12 Noon on FRIDAY, 28th April, 1961. No Tender will be accepted unless it is enclosed in a plain sealed envelope endorsed "Tender—Tar Spraying," and bearing no mark or writing by which the tenderer can be identified.

The Council do not bind themselves to accept the lowest or any Tender.  
F. B. NUNNEY,  
Town Clerk.  
Town Hall, Lowestoft, 6th April, 1961.

## CITY OF CAMBRIDGE.

## PARK STREET REDEVELOPMENT.

TENDERS are invited for the RECONSTRUCTION of PARK STREET and ROUND CHURCH STREET, Cambridge.

The work consists of the Widening of Park Street and Round Church Street, involving approx. 2,100 sq. yd. of Carriageway and 1,200 sq. yd. of Footpath, 270 yd. 12 in. S.C.W. Sewer, The Demolition and Site Clearance of Various Buildings, and the Construction of 3,000 sq. yd. of Car Parking Surface, together with other ancillary works.

The Bills of Quantities, Specification and Conditions of Contract may be obtained from T. V. BURROWS, A.M.I.C.E., M.I.Mun.E., City Engineer and Surveyor, The Guildhall, Cambridge, on a deposit of Three Guineas. The deposit will be returned on receipt of a bona-fide Tender.

Tenders must be delivered to the Guildhall, Cambridge, not later than 3 p.m. on MONDAY, the 8th May, 1961.

The lowest or any Tender will not necessarily be accepted.

ALAN H. I. SWIFT,  
Town Clerk.

The Guildhall,  
Cambridge,  
March, 1961.

## BASILDON URBAN DISTRICT COUNCIL.

## FOUL WATER SEWER—RAMSEY DRIVE, PITSEAE.

TENDERS are invited for LAYING 330 lin. yd. of 6 in. FOUL WATER SEWER, together with Manholes and Accommodation Works.

Contractors wishing to submit Tenders should forward £2 2s. deposit for documents to ENGINEER AND SURVEYOR, Council Offices, 88 Town Square, Basildon, Essex.

## CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

## ERECTION OF PUBLIC CONVENIENCES—ST. JOHN'S ROAD, SIDCUP.

Contractors wishing to TENDER should apply immediately to ENGINEER AND SURVEYOR, Manor House, Sidcup, enclosing £2 2s., refundable on receipt of a bona-fide Tender not subsequently withdrawn. Bill of Quantities will be dispatched in May.

## HAMBLEDON RURAL DISTRICT COUNCIL.

## TENDERS are invited for SITE DEVELOPMENT WORKS at THE GLEBE, Ewhurst, comprising 3,600 super. yd. of Concrete Carriageway, some 1,600 lin. yd. of 6 in.-12 in. dia. Sewers, with 39 Manholes.

Plans and Specifications, and Bills of Quantities, may be obtained, and Plans and Conditions of Contract viewed at the Office of the Engineer and Surveyor, Deposit £3 3s., returnable on receipt of a bona-fide Tender and return of documents.

Cheques should be made payable to the Hambledon Rural District Council, crossed "Lloyds Bank Limited," and sent to the Treasurer, Council Offices, Bury Fields, Guildford.

Tenders, in the endorsed envelopes provided, are to be delivered to the undersigned not later than 12 Noon on MONDAY, the 15th of MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 6th day of April, 1961.

C. J. WAGG,  
Clerk of the Council.

Council Offices,  
Bury Fields,  
Guildford, Surrey.

## BRIDGE-BLEAN RURAL DISTRICT COUNCIL.

## LITTLEBOURNE SEWERAGE.

TENDERS are invited for the CONSTRUCTION of WORKS to PREVENT INFILTRATION OF SURFACE WATER INTO SEWER AND DRAIN MANHOLES at Littlebourne.

Copies of the Specification, Schedule of Works and Form of Tender will be supplied on application to the Engineer and Surveyor at the undermentioned address where the proposed Form of Contract may be inspected.

Tenders, in sealed envelopes endorsed "Littlebourne Sewerage Infiltration," must reach the undersigned not later than 12 Noon on the 14th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

I. F. SOILLEUX,  
Clerk of the Council.

Council Offices,  
41 Old Dover Road,  
Canterbury,  
7th April, 1961.

## COVENTRY CORPORATION.

TENDERS invited for SUPPLY of FOLLOWING MATERIALS during year ending 30th June, 1962:

SCHEDULE 8—Electric Lamps and Electrical Accessories.

Forms of Tender from CITY ENGINEER, Council House.  
Completed Tenders by 12 Noon, 4th MAY.



## CONTRACTS

## BOROUGH OF SUTTON AND CHEAM.

## FOUR HOUSES AT WORCESTER PARK SEWAGE WORKS.

The COUNCIL invites TENDERS on a Firm-price Basis for the ERECTION of the ABOVE-STATED TWO-STORY DWELLINGS in a TERRACE of FOUR HOUSES.

Bills of Quantities and Form of Tender may be obtained on application to CHRISTOPHER NEEDHAM, M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton, Surrey, on payment of a deposit of £1 1s. which will be returned on receipt of a bona-fide Tender, together with all documents, etc., supplied. Cheques, etc., should be crossed and made payable to the Sutton and Cheam Borough Council.

All applications for Bills of Quantities and Form of Tender must be received not later than the 26th APRIL, 1961. No application will be accepted after that date. The documents for tendering will be sent out on or about the 3rd May, 1961.

Drawings and Conditions of Contract may be inspected at the Office of the Borough Engineer and Surveyor by all persons having made the necessary applications to tender.

Tenders must be delivered at the Office of the undersigned not later than 12 Noon on WEDNESDAY, 31st May, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

A. PRIESTLEY,  
Town Clerk.

Municipal Offices,  
Sutton, Surrey.

## CITY OF WORCESTER.

## LIVESTOCK MARKET REDEVELOPMENT—STAGE II.

TENDERS will shortly be invited for the ERECTION of the SECOND STAGE in the REDEVELOPMENT of the LIVESTOCK MARKET. This Stage comprises New Pig Market, Offices, Cafeteria and Toilets. The total floor area of these buildings is in the region of 18,000 sq. ft.

Contractors wishing to tender for this work are asked to submit their names to the City Engineer and Surveyor, 22 Bridge Street, Worcester, as soon as possible.

Bills of Quantities will be ready shortly.

BERTRAM WEBSTER,  
Town Clerk.

Guildhall,  
Worcester.

## CITY OF WORCESTER.

## PROPOSED REVENUE WORKS TO BANK OF RIVER SEVERN AT DIGLIS PARADE.

FIXED-RATE TENDERS are invited for the ABOVE WORKS, which comprise the Construction of 95 cu. yd. of STONE-FILLED GABIONS AS REVENUE WORKS to the RIVER SEVERN, and other appurtenant works.

Documents obtainable from the City Engineer and Surveyor, 22 Bridge Street, Worcester, upon payment of a Two Guinea deposit which will be returned on receipt of a bona-fide Tender.

Tenders, in envelope provided, to be posted to reach the undersigned not later than THURSDAY, the 4th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM WEBSTER,  
Town Clerk.

Guildhall,  
Worcester.

## CITY OF WORCESTER.

## ANNUAL ROAD SURFACE DRESSING CONTRACT—1961.

TENDERS are invited for the SUPPLY and APPLICATION of approx. 23,000 gallons of BITUMEN, and the TRANSPORT, SPREADING and ROLLING of 1/2 in. STONE CHIPPINGS on approx. 115,000 sq. yd. of ROAD SURFACE within the city.

Tender documents are obtainable from the City Engineer, 22 Bridge Street, Worcester, upon deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Tenders, in envelope provided, to be posted to reach the undersigned not later than THURSDAY, the 4th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM WEBSTER,  
Town Clerk.

Guildhall,  
Worcester.

## CITY OF WORCESTER.

## ANNUAL ROAD SURFACING CONTRACT—1961.

TENDERS are invited for the FOLLOWING CARRIAGEWAY RESURFACING WORKS:

10,000 sq. yd. Heating and Planing.  
19,000 sq. yd. of Hot Rolled Asphalt and Pre-coated Chippings, together with Base Course to 860 sq. yd.

240 sq. yd. of Two Course Dense Tar Surfacing at "Bus Stops".

Miscellaneous Trench Reinstatement Works in Hot Rolled Asphalt.

Tender documents are obtainable from the City Engineer, 22 Bridge Street, Worcester, upon deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Tenders, in envelope provided, to be posted to reach the undersigned not later than THURSDAY, the 4th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM WEBSTER,  
Town Clerk.

Guildhall,  
Worcester.

## THE URBAN DISTRICT COUNCIL OF SEVENOAKS.

TENDERS are invited for the SURFACE DRESSING, SPREADING OF CRUSHED SHINGLE AND/OR CHIPPINGS and ROLLING of approx. 75,000 super. yd. of CARRIAGEWAYS.

Form of Tender and other particulars may be obtained from the Engineer and Surveyor, Council Offices, Argyle Road, Sevenoaks, Kent.

Tenders must be delivered to the undersigned, in the official envelope provided, not later than 9 a.m. on the 24th APRIL, 1961.

The Council does not bind itself to accept the lowest or any Tender.

A. F. D. DAVIS,  
Clerk of the Council.

Council Offices,  
Argyle Road,  
Sevenoaks,  
April, 1961.

## CONTRACTS

## PEMBROKESHIRE COUNTY COUNCIL.

## TENBY-CARDIGAN ROAD, A.478.

## IMPROVEMENT AT PONT BRIDELL.

FIXED-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of a REINFORCED CONCRETE BOX CULVERT 8ft. x 8ft. x 130ft. long, together with approx. 670 yd. of NEW ROAD of 42ft. overall width, partly on embankment.

Contract documents and Drawings may be obtained from the County Surveyor, County Offices, Haverfordwest, on payment of a deposit of Five Guineas which will be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders, on the form supplied, are to be delivered to the undersigned not later than Noon on FRIDAY, 12th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. LOUIS UNDERWOOD,  
Clerk of the County Council.

County Offices,  
Haverfordwest.

## BOROUGH OF STOURBRIDGE.

## CONSTRUCTION OF SERVICE ROAD AT REAR OF RANDLE ROAD.

TENDERS are invited for the CONSTRUCTION of 600 sq. yd. of CARRIAGEWAY, and incidental works, including Drainage.

Contract documents obtained from the undersigned on receipt of a deposit of Two Guineas.

Tenders, in plain sealed envelopes endorsed "Service Road at Rear of Randle Road," by Recorded Delivery to the Town Clerk, Council House, Stourbridge, not later than Noon on TUESDAY, 2nd May, 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. W. MORRIS, B.Sc.(Eng.), A.M.I.C.E.,  
M.I.Mun.E.,  
Borough Engineer and Surveyor.

Council House,  
Stourbridge.

7th April, 1961.

## BOROUGH OF ALTRINCHAM.

## TENDER FOR ASHBINS—1961/62.

The COUNCIL invite TENDERS for the SUPPLY and DELIVERY of 1,000 1,200 GALVANISED ASHBINS.

The Ashbins to be 2 1/4 cu. ft. capacity and in accordance with British Standard Specification No. 792:1947, and amendments. Consideration will also be given to delivery of superior quality to this Specification, and the ashbins and lids to be embossed "A.C. 1961".

Forms can be obtained from the Chief Public Health Inspector, 16 Market St., Altrincham, and should be completed and returned to the undersigned, in plain white envelopes endorsed "Tender for Ashbins," not later than 28th APRIL, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and any persons tendering must comply the Standing Orders and Regulations of the Council.

E. GRAHAM THOMAS, L.L.B.,  
Town Clerk.

Town Hall,  
Altrincham.

## WOKING URBAN DISTRICT COUNCIL.

## SURFACE WATER SEWER.

## OYSTER LANE TO BROOKLANDS.

TENDERS invited for ABOVE WORKS, comprising following approx. quantities: 150 lin. yd. of 24in. dia. Concrete Pipe Sewer; 260 lin. yd. of 27in. dia. Concrete Pipe Sewer, including 22 lin. yd. of Heading under the old Brooklands Race Track.

Tender documents from Engineer and Surveyor upon payment of Two Guineas, refunded only on receipt bona-fide Tender not subsequently withdrawn.

Plans seen normal office hours at Engineer's Office.

Tenders, in envelope provided, to CLERK OF THE COUNCIL by 8.45 a.m., 8th May, 1961.

## EXMOUTH URBAN DISTRICT COUNCIL.

## TENDERS FOR REFUSE COLLECTOR VEHICLE.

TENDERS are invited for the SUPPLY and DELIVERY of ONE 18 cu. yd. capacity DUAL-TIP REFUSE COLLECTOR VEHICLE with Petrol Engine, fitted with Seven-seater Cab and painted and lettered to the Council's requirements.

The vehicle is to be supplied with all-purpose tyres, and the successful tenderer will be required to take in part-exchange a 1950 Karrier Bantam Moving Floor Refuse Vehicle.

Any further particulars may be obtained from the Engineer and Surveyor, Town Hall, Exmouth, Tel. No.: Exmouth 4356.

Tenders, in sealed envelopes endorsed "Tender for Refuse Collector Vehicle," and bearing no mark or indication of the sender, must be delivered to the undersigned not later than Noon on MONDAY, the 24th of April, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. S. BAGSHAW,  
Clerk and Solicitor.

Town Hall,  
Exmouth.

## EAST DEAN RURAL DISTRICT COUNCIL.

## SEWER EXTENSIONS—DRYBROOK.

TENDERS are invited, on a Fixed-price Basis, from experienced contractors for the CONSTRUCTION of about 1,900 lin. yd. of 6in. dia. STONEWARE and CONCRETE SEWERS, together with Manholes, Lateral Drains, and incidental works, at THE MORSE, DRYBROOK, Gloucestershire.

Tendering documents may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, Teiford House, Huish Road, Southampton, on or after Tuesday, 18th April, upon payment of a deposit cheque for £3 3s. made payable to the East Dean Rural District Council, and Plans and sections of the works may be inspected at the Council Offices, Cinderford, or at the Offices of the Engineers, during normal office hours. Deposits will be returned upon the receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Drybrook Sewerage," must be delivered to the undersigned not later than Noon on TUESDAY, 16th May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. HARRIS,  
Clerk to the Council.

Council Offices,  
Cinderford, Glos.

8th April, 1961.

## CONTRACTS

## NATO COMMON INFRASTRUCTURE.

## SLICE VIII.

## NAVAL BASE INSTALLATIONS.

Final notice is hereby given that INTERNATIONAL COMPETITIVE BIDS will be invited on or about 1st July, 1961, for the CONSTRUCTION of a JETTY associated with a P.O.L. Storage Depot in the CAMPBELTOWN AREA of Scotland.

The approx. total value of the jetty works is £250,000, and the jetty and its approach spans will be constructed of reinforced concrete supported upon steel box piles.

A separate final notice in respect of P.O.L. storage depot has been issued. Pipework and terminal facilities on the jetty will form part of the contract for the P.O.L. storage depot.

It should be noted that the importation of labour from sources outside the United Kingdom may be subject to restriction, and that permission could, in any case, only be given on an undertaking that the contractor would pay rates of wages and observe hours and conditions of labour not less favourable than those established for U.K. labour for the trade or industry in the same area.

The closing date for the receipt of bids will be 31st AUGUST, 1961.

Firms wishing to bid must formally notify their desire by applications to the address below by 1st MAY, 1961.

Within one week after the closing date for the receipt of applications to bid, firms wishing to be invited must forward the following information:—

(i) Statement of financial resources and evidence of financial stability.

(ii) Details of recent major contracts completed for work of a comparable nature, including an indication of the value of each.

Inquiries regarding bidding should be addressed to Director-General, Navy Works, ADMIRALTY, Chamberlain Way, Pinner, Middlesex, England, quoting Reference NWD Infra 19 (letty).

## COUNTY OF NORTHUMBERLAND.

## COUNTY SURVEYOR'S DEPARTMENT.

## PURCHASE OF NEW HIGHWAY PLANT.

The above COUNCIL invite TENDERS for the SUPPLY of the FOLLOWING ITEMS of new HIGHWAY PLANT:—

- Item No.
- (1) Nine Ferguson Industrial Type Tractors.
- (2) 12 7 1/2-ton Heavy Diesel Motor Wagons.
- (3) Six 5-ton Diesel Motor Wagons.
- (4) Two Mechanical Road Sweepers.
- (5) One Gully Emptyer.
- (6) Four Mechanical Shovels.
- (7) One Lintol Ditcher.
- (8) Six 1/2 cu. yd. Diesel Dumpers.
- (9) 29 Tuke and Bell Type Gritters.
- (10) 12 7 1/2-ton Diesel Motor Gritters.
- (11) One 10-ton Diesel Roller.
- (12) Two 3-ton Footpath Rollers.
- (13) One Multi-wheeled Rubber-tyred Roller.
- (14) Four Vibro-Compactors, Pedestrian-operated.
- (15) Two Personnel Carriers.
- (16) Two Hilman Huskies.
- (17) 14 S.C.W. Motor Vans.
- (18) Six Ferguson Mid-mounted Mowers.
- (19) 31 Snowbloughs.
- (20) Two Trailer Type Water Tanks.
- (21) Eight Warsop Breakers.
- (22) Six 5 3/4 cu. ft. Concrete Mixers.

Specifications may be obtained from the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1, envelope to be endorsed "Application for Tender Forms."

Tenders, in a plain sealed envelope, addressed to the Clerk of the County Council, Phoenix Hill, Newcastle upon Tyne, 1, endorsed "Tender for New Highway Plant—9 a.m., 5th MAY, 1961," should be delivered by this time and date.

E. P. HARVEY,  
Clerk of the County Council.

## CITY AND COUNTY OF NORWICH.

## TENDERS invited for the SUPPLY of ONE HYDRAULIC LOADING SHOVEL.

Particulars and Specification from the CHIEF PUBLIC HEALTH INSPECTOR, 69 Bethel Street, Norwich, Norfolk, NOR 57E.

Tenders to be submitted by 29th APRIL.

## CITY OF STOKE-ON-TRENT.

## HANLEY MAIN OUTFALL SEWER.

## STORM WATER SEWERS—ETRUSCAN STREET AND CAVOUR STREET.

The CORPORATION invite TENDERS from civil engineering contractors for CARING OUT WORKS on the ABOVE SEWERAGE SCHEME.

The works comprise the Laying of approx. 390 lin. yd. of 24in. to 12in. Concrete Pipes, 330 lin. yd. of 9in. dia. Spin-iron Water Main and 1,400 lin. yd. of 9in. dia. Spin-iron Water Main and W.O. Main; (b) Other appurtenant work, e.g., Fixing of 9in. dia. Air Valves, Washouts, Hydrants, Sluice Valves, etc., with Connections to existing Mains.

Drawings and Conditions of Contract may be seen, and Specification, Bills of Quantities, etc., obtained from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on payment of £3 deposit which will be returned on receipt of a bona-fide Tender.

Tender and priced Bills of Quantities (in the separate envelopes provided) to be delivered to the undersigned by 12 Noon on WEDNESDAY, 3rd May, 1961.

HARRY TAYLOR,  
Town Clerk.

## THAMES VALLEY WATER BOARD.

## CONTRACT NO. 25.

## 6IN. DIA. WATER MAIN FROM IPSDEN TO EWELME, ETC., OXON AND AT NUFFIELD.

The Board invite FIXED-PRICE TENDERS for the ABOVE CONTRACT, comprising: (a) Laying and jointing approx. 10,500 lin. yd. of 6in. dia. and 1,400 lin. yd. of 9in. dia. Spin-iron Water Main and W.O. Main; (b) Other appurtenant work, e.g., Fixing of 9in. dia. Air Valves, Washouts, Hydrants, Sluice Valves, etc., with Connections to existing Mains.

Drawings and General Conditions may be inspected at the Office of the Engineer and Manager, 16/20 The Forebury, Reading. Copies of the Specification, Bill of Quantities, etc., may be obtained from the undersigned on payment of a deposit of £3 3s. (made payable to the Board) which will be refunded upon receipt of a bona-fide Tender and all documents.

Tenders must be received by me not later than 9 a.m. on MONDAY, 8th May, 1961, in the addressed envelope supplied.

The Board do not bind themselves to accept the lowest or any Tender.

P. E. B. GOSLING,  
Clerk/Treasurer.

Berkeley Avenue,  
Reading.



## CONTRACTS

## STEPNEY METROPOLITAN BOROUGH COUNCIL.

- (1) CARPETING OF SETT CARRIAGEWAYS; AND  
(2) SURFACE DRESSING OF ROADS.

TENDERS are invited for the CARPETING OF SETT CARRIAGEWAYS (approx. 65,000 sq. yd. in aggregate); and for SURFACE DRESSING OF ROADS (approx. 45,000 sq. yd. in aggregate) for the year 1961-62.

Forms of Tender, with Conditions, etc., for each Contract, obtainable from the Borough Engineer and Surveyor, Nos. 227/233 Commercial Road, E.1.

Closing date for Tenders: 1st MAY, 1961.

WILFRED REEVE, Town Clerk.

Municipal Offices,  
227/233 Commercial Road,  
E.1.

## THANET WATER BOARD.

## LORD OF THE MANOR PUMPING STATION—RECONSTRUCTION.

## DEEPENING OF EXISTING WELL.

FIXED-PRICE TENDERS are invited from experienced contractors for the DEEPENING OF AN EXISTING WELL at the Lord of the Manor Pumping Station, Ramsgate.

Tender documents may be obtained from the Engineer and Manager, Thanet Water Board, 58 Victoria Road, Margate, and are to be returned by Registered Post not later than 12 Noon on FRIDAY, 12th May, 1961, in the plain sealed envelope provided. The envelope must not bear any name or mark to indicate the sender.

The Board does not undertake to accept the lowest or any Tender, and will not defray any expenses in tendering.

T. F. SIDNELL, Clerk to the Board.

58 Victoria Road,  
Margate, Kent.

**QUARRY OWNERS** invite inquiries from **PLANT OPERATORS** to EXTRACT, CRUSH and LOAD various grades STONE on contract basis. Up to five-year agreements in suitable circumstances. Lancashire area.—Write in first place to Box X.3947. "The Contract Journal."

**LEADING ESTATE DEVELOPERS** in the Home Counties who are expanding, may wish to engage **ADDITIONAL CONTRACTORS** for the ERECTION OF DWELLING HOUSES in contracts of approx. value £100,000. Any contractors interested and who have experience of post-war housing development should write, in confidence, when a personal interview will be arranged.

Write Box X.3844, "The Contract Journal."

**TIP AVAILABLE**, Camberley area, 3,000 cu. yd. earth filling, no refuse, next 12 weeks.—**BRYAN WATTRIDGE (PUBLIC WORKS) LTD.**, The Sandpits, Seale, Farnham, Surrey. Telephone: Runfold 2229.

For Contracts received too late for  
classification see page 137

## APPOINTMENTS VACANT

## LONDON COUNTY COUNCIL.

## HOUSING DEPARTMENT—WORKS DIVISION.

## DIRECT EMPLOYMENT OF LABOUR.

REQUIRED immediately for SUPERANNUABLE POSITIONS.

- Bonus Surveyors, for operation of incentive schemes for all trades on work of new construction and modernisation and conversion.
- Maintenance Surveyors, with experience in maintenance of houses and flats, estimating for repairs, preparation of dilapidation schedules and reports.
- Plumbing Technical Assistant, capable of taking-off quantities and preparing material schedules for internal and external plumbing to multi-storey blocks of flats.

Salary, according to qualifications and experience, up to maximum of £960 p.a.

- Building Supervisor (Travelling), in section responsible for large programme of modernisation and conversion of blocks of flats. Duties include supervision and co-ordination of work on some seven or eight sites. Ability to prepare concise but clearly expressed reports essential.

Salary, according to qualifications and experience, on Scale £830-£1,250.

Holiday commitments honoured.

Write, stating age, qualifications, details of experience, and position applied for, to **DIRECTOR OF HOUSING (G.1/C/856/4)**, County Hall, S.E.1.

## BOROUGH OF SOUTHALL.

## APPOINTMENT OF CLERK OF WORKS (TEMPORARY).

APPLICATIONS are invited for the ABOVE POST in the Borough Engineer's Department for the supervision of extensive road improvements by contract. The salary scale will be £785/£25/£860 inclusive, commencing salary according to qualifications and experience.

Applicants must have considerable experience of road construction.

Forms of application, obtainable from the Borough Engineer, Town Hall, Southall, must be returned to him by 24th APRIL, 1961.

J. S. SYRETT, Town Clerk.

Town Clerk's Offices,  
South Road,  
Southall,  
Middx.

## SALTURN AND MARKE BY-THE-SEA URBAN DISTRICT COUNCIL.

## CLERK OF WORKS.

The Council invite APPLICATIONS from competent persons to take charge of a sewer contract of 2,500 yd. up to 36in. diameter, some of which is in tunnel, for a period of not less than 12 months, at a salary of £960 per annum, plus £50 per annum for subsistence. Applications should be in writing to the undersigned, stating the age and previous experience of the applicant.

L. E. HORGAN, Clerk of the Council.

Council Offices,  
Saltburn-by-the-Sea,  
Yorkshire.

## APPOINTMENTS VACANT

## COUNTY OF NORTHUMBERLAND.

## COUNTY SURVEYOR'S DEPARTMENT.

(A) ENGINEERING ASSISTANTS, A.P.T. GRADE III (£960-£1,140) AND GRADE III/IV (£960-£1,310).  
(B) JUNIOR ENGINEERING ASSISTANTS, A.P.T. GRADE I (£645-£815) AND GRADE II (£815-£960).

APPLICATIONS are invited for the ABOVE POSTS on the PERMANENT STAFF.

Applicants should have completed a recognised course of professional training in Civil or Municipal Engineering, or hold a University Degree in Civil Engineering. Applicants for Appointment A must, in addition, for Grade III, have passed Parts I and II of the Institutions of Civil or Municipal Engineers Examinations, or their equivalent, and for Grade III/IV be qualified for election to Associate Membership in one of these Institutions. In all cases the salary offered the grade for which the candidate is qualified will be in accordance with experience.

The appointments will be subject to the Local Government Superannuation Act, 1953, to the National Joint Council for the Engineering Professions, as adopted by the County Council, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, details of experience, previous and present appointments, and salary, together with the names of two referees, to be delivered to the undersigned by FRIDAY, 28th April, 1961.

G. F. GARNETT,

County Surveyor.

Phoenix House,  
Queen Street,  
Newcastle upon Tyne, 1.

## HERTFORDSHIRE COUNTY COUNCIL.

## STEVENAGE BY-PASS.

APPLICATIONS are invited for the APPOINTMENT OF QUANTITY SURVEYOR at the salary of £1,385 per annum.

This is a temporary appointment on works for a period of about 12 months. Candidates should hold appropriate qualifications.

Applications (on forms supplied), stating age, qualifications, present salary, details of experience, and names of two referees, to be sent at once to the COUNTY SURVEYOR, County Hall, Hertford.

## COUNTY BOROUGH OF BURY.

APPLICATIONS invited for the APPOINTMENT OF TWO TEMPORARY CIVIL ENGINEERING CLERKS OF WORKS for the following works:

- Sewerage.—Applicants should have had experience in dealing with contracts for large sewerage schemes and reinforced concrete works. The duration of the work is expected to be 18-24 months.

- Sewage. WENTMEN'S Extensions.—Applicants should be capable of dealing with large contracts covering all aspects of sewage works construction. The duration of the first contract is approx. six months, but it is possible that the appointment will be extended for a period of up to five years until the completion of the first stage extensions.

The salary for the above appointments is Misc. Grade VI (£760-£825).

Applications, stating age, experience, present and previous appointments, and salary, together with the names of two referees, must reach me by 26th APRIL, 1961.

EDWARD S. SMITH, Town Clerk.

Town Hall,  
Bury,

4th April, 1961.

## BOROUGH OF MARGATE.

## BOROUGH ENGINEER'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified candidates for the POST of PLANNING ASSISTANT in the Borough Engineer's Office, salary in accordance with A.P.T. III (£960, rising by annual increments to a maximum of £1,140 p.a.).

Applicants should have wide experience in planning matters in the Office of a Local Authority. Applications, giving details of experience, and the names of two referees, and endorsed "Planning Assistant," are to be received by the Borough Engineer and Surveyor, 38 Grosvenor Place, Margate, by SATURDAY, 29th April, 1961.

The Council will assist in the provision of housing accommodation if required, and candidates should disclose whether they are related to any member or Chief Officer of the Council.

T. F. SIDNELL,

Town Clerk.

Town Clerk's Office,  
40 Grosvenor Place,  
Margate.

## CITY OF LEICESTER.

BUILDING and ESTATES SURVEYOR REQUIRED to take charge of maintenance work on houses, offices, waterworks buildings and estates, and to design extensions. Applicants should be registered architects or chartered surveyors or equivalent. Experience in building construction and maintenance by contract and by direct labour. Salary A.P.T. 4 (£1,140-£1,310). National conditions of service apply. Housing assistance if necessary.

Applications to **ENGINEER AND MANAGER**, Water Department, Bowling Green Street, Leicester, by 24th APRIL, 1961.

## CITY OF CARDIFF.

## CORPORATION WATERWORKS.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS on the Staff of the Water Engineer and Manager:

- Engineering Assistant, A.P.T. Grade III (£960-£1,140 p.a.).
- Junior Engineering Assistant, A.P.T. Grade II (£815-£875 p.a.).

Candidates for Post (a) should possess a University Degree in Civil Engineering, or passed Parts "A" and "B" of the Examination of the Institution of Civil Engineers.

Candidates for Post (b) should have experience of the supervision of maintenance work.

General Conditions of Appointment can be obtained from the Water Engineer and Manager, Municipal Offices, Greyfriars Road, Cardiff, and applications, stating age, previous experience, and qualifications, together with the names of two referees, should reach the undersigned, in envelopes appropriately endorsed, not later than the 25th APRIL, 1961.

S. TAPPER-JONES,

Town Clerk.

City Hall,  
Cardiff,  
March, 1961.

## APPOINTMENTS VACANT

## NATIONAL COAL BOARD.

## CIVIL/STRUCTURAL ENGINEERS.

APPLICATIONS are invited for POSTS on the PERMANENT STAFF of the Chief Civil Engineer of the National Coal Board, East Midlands Division.

Salaries, according to age, experience and qualifications, range from £665 to £1,550 a year. The duties involve the design and execution of large colliery projects and reconstruction schemes. Applicants should have some experience of one or more of the following works, preferably for industrial projects: Steel or reinforced concrete design and construction; industrial building construction; drainage and sewerage; railway sidings and their ancillary services.

Candidates should be Corporate Members or Graduates of the Institution of Civil or Structural Engineers, or should be making good progress towards obtaining a professional qualification.

Applications, giving age and full details of qualifications and experience, should be addressed to **DIVISIONAL CHIEF STAFF OFFICER**, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, Nottingham. Please quote "S.V.1113."

## BOROUGH OF TENTERDEN.

## WORKS SUPERINTENDENT.

APPLICATIONS are invited for the ABOVE POST from experienced, practical men who must be fully qualified building tradesmen.

Candidates should be able to supervise and co-ordinate the direct labour works carried out by the Council's own staff, and make routine inspections of road and building works, etc., carried out by contractors. Ability to drive essential.

Salary will be in accordance with the scale laid down for Local Authorities (Building and Civil Engineering) Craftsmen, together with a plus rate of £2 (Two Pounds) per week.

Applications, stating age, qualifications and details of experience, present and past employment, together with the names and addresses of two referees, to reach the undersigned not later than Noon, the 26th APRIL, 1961.

R. J. NICHOLS, Borough Surveyor.

Town Hall,  
Tenterden, Kent,  
5th April, 1961.

## BOROUGH OF SOUTHALL.

## APPOINTMENT OF CLERK OF WORKS (TEMPORARY).

APPLICATIONS are invited for the ABOVE POST in the Borough Engineer's Department, for the supervision of the building of flats and old persons' dwellings by contract.

The salary scale will be £785/£25/£860 inclusive, commencing salary according to qualifications and experience.

Applicants must have considerable experience of building construction.

Forms of Application, obtainable from the Borough Engineer, Town Hall, Southall, must be returned to him by 24th APRIL, 1961.

J. S. SYRETT, Town Clerk.

Town Clerk's Offices,  
South Road,  
Southall, Middx.

## CITY OF WAKEFIELD.

## CITY ENGINEER'S DEPARTMENT.

## APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR, GRADE A.P.T. III (£960-£1,140).

APPLICATIONS are invited for the ABOVE SUPERANNUABLE APPOINTMENT.

Candidates should be members by examination of the R.I.C.S. or I.Q.S., and preference will be given to those having experience in local authority housing, school, and other municipal projects.

The provision of housing accommodation will be considered, and a 5-day week is in operation.

Applications, stating age, qualifications and experience, together with the names of two referees, to be sent to the **CITY ENGINEER**, Town Hall, Wakefield, by the 28th APRIL, 1961.

## FROME RURAL DISTRICT COUNCIL.

## NORTON ST. PHILIP SEWERAGE AND SEWAGE DISPOSAL.

## APPOINTMENT OF RESIDENT ENGINEER.

The above-named Council invite APPLICATIONS for the ABOVEMENTIONED APPOINTMENT at an inclusive salary of up to £1,250 per annum, according to experience and qualifications. The appointment will be subject to one month's notice on either side, and will be a temporary one, although the time allocated for the completion of the contract is 15 months.

The successful applicant will be required to supervise, under the direction of the Consulting Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of Birmingham, the construction of sewage disposal works and the laying of sewers in stoneware and spun-iron pipes, and must have had experience in this work. A knowledge of the supervision of reinforced concrete work would also be an advantage.

Applications, stating age, qualifications and experience, giving the names of three referees, must reach the undersigned by MONDAY, 24th April, 1961.

The successful candidate will be required to pass a medical examination.

J. C. HUGHES, Clerk of the Council.

Public Offices,  
Frome, Som.  
5th April, 1961.

## CANTERBURY AND DISTRICT WATER COMPANY.

## RESIDENT ENGINEER.

APPLICATIONS are invited for the IMMEDIATE APPOINTMENT of a **RESIDENT ENGINEER** at a salary of £1,250-£1,400 per annum, according to qualifications and experience.

The appointment is of a temporary nature and is expected to last about 18 months.

The works to be carried out by contract consist of the construction of a reinforced concrete service reservoir of four million gallon capacity and 5,000 yd. of 18in. dia. spun-iron water mains, and other apparatus works.

Applicants must have had experience of this class of work and must be capable of levelling, setting-out, measuring and supervising work in progress, and be able to keep records and check accounts.

Applications, stating age, qualifications and experience, should be submitted immediately to **JOHN TAYLOR AND SONS**, Consulting Engineers, Artillery House, Artillery Row, London, S.W.1.



## APPOINTMENTS VACANT

## ADEN GOVERNMENT P.W.D.

**INSPECTOR OF WORKS (Roads) REQUIRED** by the above Government, on contract for four of 18-24 months in first instance. Salary, according to experience, in Scale (including Pay Differential) £1,040, rising to £1,579 a year. Supplementary Pay Differential £120 to £144 a year payable to officer with dependent children. Gratuity at rate of 12½ per cent. of total salary drawn. Outfit allowance £60. Free passages for officer and wife. Free passages for up to four children, and allowance of up to £288 annually for cost of education in U.K. Liberal leave on full salary between tours, or terminal payment in lieu if contract not renewed. Quarters available at moderate rental.

Candidates, over 28, must have served apprenticeship in building trade and have had at least five years in supervisory capacity. Knowledge of bitumen mixing and laying plant, surface dressing and road formation construction also desirable.

Apply to **CROWN AGENTS, 4 Millbank London, S.W.1**, for Application Form and further particulars, stating age, name, brief details of qualifications and experience, and quoting Ref. M2B 51037 CA.

## ROYAL BOROUGH OF NEW WINDSOR.

## SENIOR ASSISTANT ENGINEER.

APPLICATIONS are invited for THIS POST on Grade A.P.T. IV (£1,140-£1,310 p.a.). Car allowance as a casual user.

Apply to Borough Engineer, Kipling Memorial Building, Alma Road, Windsor, for details, conditions of appointment, and instructions to applicant, quoting Ref. "A."

Applications should be sent to the Borough Engineer as soon as possible.

G. N. WALDRAM,  
Town Clerk.

## BOROUGH OF EALING.

**TEMPORARY RESIDENT MAIN DRAINAGE ENGINEER REQUIRED.** Salary £1,600 p.a. inclusive. Experience in construction of sewers in trench and heading, and reinforced concrete essential. Contract commencing May, 1961, approx.

Application Forms, with full particulars and Conditions of Service, from **BOROUGH SURVEYOR, Town Hall, Ealing, W.5**. Closing date: 1st MAY, 1961.

## BOROUGH OF CROSBY.

## ASSISTANT QUANTITY SURVEYOR.

APPLICATIONS are invited for the POSITION of ASSISTANT QUANTITY SURVEYOR in the Borough Engineer and Surveyor's Department.

Candidates will be required to possess a sound knowledge of methods of taking-off and billing, and the preparation of interim and final accounts in connection with building work.

The salary will be within the range A.P.T. III, according to qualification and experience, progression beyond A.P.T. I being subject to the passing of the intermediate examination of an appropriate professional institution.

Applications, on forms obtainable from the Borough Engineer and Surveyor, at the address below, must be received not later than WEDNESDAY, 26th April, 1961.

Canvassing will disqualify.  
HAROLD O. ROBERTS,  
Town Clerk.

Town Hall,  
Waterloo,  
Liverpool, 22,  
29th March, 1961.

## THEDWASTRE RURAL DISTRICT COUNCIL.

## WALSHAM-LE-WILLOWS AND BADWELL ASH SEWAGE AND SOLID WASTE DISPOSAL SCHEME.

## APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from suitably qualified persons for the ABOVE APPOINTMENT. The scheme involves the construction of about four miles of concrete pipe sewers 9in. and 6in. dia.; concrete manholes; 1,500yd. of 5in. dia. rising main in asbestos-cement pressure pipes; a sewage disposal works comprising settlement tanks, percolating filters, humus tanks and sludge drying beds, mainly in reinforced concrete, and two sewage pumping stations also mainly in reinforced concrete.

The works will be under the direction of the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, of 59 Tuford Street, Westminster, S.W.1.

The salary will be fixed within the range £1,140 to £1,310, according to qualifications and experience, and, subject to satisfactory service, the appointment is expected to last approx. 12 months and will be terminable by one month's notice on either side. There is a possibility that the person appointed will be invited to act as Resident Engineer for further sewerage and sewage disposal schemes within the district.

Applications, stating age, qualifications, experience, details of present and past appointments, and giving the names of two referees, must be delivered to the undersigned not later than 17th APRIL, 1961.

A. OWEN,  
Clerk to the Council.

Council Offices,  
Elmswell,  
Bury St. Edmunds,  
Suffolk.

## LEEDS REGIONAL HOSPITAL BOARD.

## PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD.

## CLERK OF WORKS (BUILDING AND STRUCTURAL).

APPLICATIONS are invited for the APPOINTMENT of CLERK OF WORKS (Building and Structural) in connection with the construction of a new (500-bed; approx. total cost £3½m.) General Hospital at Huddersfield. Salary £1,200 per annum.

The project is being carried out in consecutive phases under the direction of the Regional Architect, P. B. NASH, A.R.I.B.A., and MESSRS. GEORGE, TREW AND DUNN, Private Architects. The main building contract has now been running for one year, and building on the site will continue for another three years.

The Clerk of Works will have an Assistant Clerk of Works (Building) and a Clerk of Works (Mechanical and Electrical) to assist him in his duties.

Applicants must possess a thorough knowledge of all aspects of the building trade, and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institution of Clerks of Works, or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the SECRETARY, Park Parade, Harrogate, within 10 days.

## APPOINTMENTS VACANT

## LONDON COUNTY COUNCIL.

## HOUSING DEPARTMENT—WORKS DIVISION.

## DIRECT EMPLOYMENT OF LABOUR.

**REQUIRED immediately: SITE SUPERVISORS**, for the erection of houses and blocks of flats.

Experience of supervision on traditional building work and reinforced concrete construction as applied to multi-storey flats essential.

Salary according to qualifications and experience. Bonus on results may be earned in addition. Holiday commitments honoured.

Write, stating age, qualifications, details of experience, and position applied for, to **DIRECTOR OF HOUSING (G.1/C/955/4)**, County Hall, S.E.1.

## COUNTY OF CORNWALL.

## HIGHWAYS DEPARTMENT.

APPLICATIONS are invited from qualified Engineers for the APPOINTMENT of ASSISTANT ENGINEER within Grade IV (£1,140-£1,310). A car allowance will be paid.

Applicants must have had experience in design and preparation of major road schemes and execution of works, including small bridges and culverts.

Applications, together with names of two persons to whom reference may be made, should be sent to the County Surveyor, County Hall, Truro, by the 26th APRIL, 1961.

E. T. VERGER,

Clerk of the County Council.

County Hall,  
Truro.

30th March, 1961.

## COUNTY BOROUGH OF ROCHDALE.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS in the Borough Engineer and Surveyor's Department:

(a) Quantity Surveyor—Grade A.P.T. III/IV.

(b) Assistant Architect—Grade A.P.T. III/IV.

(c) Heating and Ventilating Assistant—Grade A.P.T. III/IV.

The commencing salary will be in accordance with experience and qualifications.

Applications, stating age, qualifications, present and previous appointments, and experience, together with the names of two referees, to Borough Engineer and Surveyor by 29th APRIL.

Canvassing will disqualify; relationship to any member or senior official of the Council must be disclosed. Appointments subject to medical examination.

K. B. MOORE,

Town Clerk.

Town Hall,  
Rochdale.

7th April, 1961.

## BOROUGH OF HIGH WYCOMBE.

## APPOINTMENT OF CLERKS OF WORKS.

APPLICATIONS are invited for the APPOINTMENT of TWO CLERKS OF WORKS at a salary of £950 p.a.

Applicants must have had experience in the construction of sewers in water-bearing ground, and sewage disposal works.

Candidates should submit full details as to age, qualifications and experience, together with the names of two persons to whom reference may be made.

Applications should be forwarded to the undersigned by not later than Noon on MONDAY, 1st May, 1961.

J. A. PARKINSON, M.A., A.M.I.C.E.,  
Borough Engineer and Surveyor.

Municipal Offices,  
High Wycombe.

## CITY OF LEICESTER.

## NEW SEWAGE DISPOSAL WORKS, WANLIP.

## APPOINTMENT OF TEMPORARY INSPECTOR.

APPLICATIONS are invited from persons with suitable experience in the supervision and control of extensive reinforced concrete works, to work under the direction of the Resident Engineer.

The Scheme has been designed by MESSRS. J. D. AND D. M. WATSON, Consulting Engineers, London. The post is conditioned to: (a) the Scheme of Conditions of Service for the Miscellaneous Classes of Officers at a salary of £17 per week, with customary overtime as worked in Civil Engineering; and (b) the Local Government Superannuation Acts.

Applications, stating age, experience, and the names of two referees, to the undersigned not later than MONDAY, 24th April, 1961.

JOHN L. BECKETT, M.I.C.E.,

City Surveyor.

Town Hall,  
Leicester.

## SUNDERLAND AND SOUTH SHIELDS WATER COMPANY.

## DERWENT RESERVOIR.

## INSPECTORS OF WORKS.

APPLICATIONS are invited from Public Works Inspectors for work on the Derwent Reservoir, which is situated five miles west of Consett.

Applicants should have a sound general experience backed, preferably, by a trade apprenticeship. Experience with drilling, tunnelling or earth dam construction would be an advantage.

Salary will be £750 p.a. plus a lodging or travelling allowance of £3 3s. per week. Overtime rates will be paid.

Applications, stating age and other personal particulars, and giving full details of experience, should be received by me not later than FRIDAY, 21st April. Applicants are also required to give the names and addresses of two persons to whom reference may be made.

A. G. McLELLAN,  
General Manager.

29 John Street,  
Sunderland.

**SITE COST SURVEYORS.**—Applications invited from fully trained Surveyors for important positions on building and civil engineering contracts in the Midlands area. Applicants should have H.N.C. in Building or L.I.O.B., and age range between 26 and 36 years. Top salary with pension and bonus scheme, and good prospects for promotion.—Send full particulars in confidence to Personnel Manager, WILSON LOVAT AND SONS, LTD., Clarence Street, Wolverhampton.

**SENIOR ESTIMATOR REQUIRED** to work in Newcastle. Experienced in pricing bills of quantities for all types of building work up to £500,000. Good salary and conditions.—Please reply, giving details of qualifications and experience, to JOHN TWINAME, LTD., Allerdale House, Brigham, Cockermouth, Cumberland.

## APPOINTMENTS VACANT

**MASSEY-FERGUSON INDUSTRIAL DISTRIBUTORS** require a SALES REPRESENTATIVE based in the Reading-Maidenhead vicinity. Previous experience with industrial tractors or allied equipment absolutely necessary. —TRACTORS AND FARMMAIDS, LTD., Stratton Road, Swindon, Wiltshire.

## OVERSEAS VACANCIES FOR ENGINEERS

Vacancies exist for ENGINEERS with about 10 or more years' experience in civil engineering contracting, on an interesting project in South America. Married quarters available.

WRITE BOX V.3833, "THE CONTRACT JOURNAL."

## MEARS BROS. (CONTRACTORS), LTD.

Engineering Contractors, Head Office: 154 Sydenham Road, S.E.26, invite applications from Civil Engineers who have had some years of site experience and responsibility on construction work, for position as ASSISTANT in the estimating department. Ability to layout and plan temporary works, plant and labour programmes a desirable qualification. The post is eminently suitable for outside men who no longer wish to travel and are seeking a head office appointment.—Applications, in writing, giving particulars of experience, qualifications, previous employers, and salary grade, will be treated in strict confidence by the Personnel Manager at the above address.

## PROJECT MANAGER

A vacancy exists for an experienced PROJECT MANAGER on an important civil engineering contract abroad. The work requires a man with considerable drive, high organising powers and the ability to exercise close control over a large fast-moving job. The salary offered will be commensurate with the experience and ability of applicant. Good results will be fully recognised in addition. Future prospects are assured. All letters will be acknowledged and treated in strict confidence.—Write, marking envelope "Strictly Confidential," to:

BOX V.3805, "The Director," "THE CONTRACT JOURNAL."

**HUSSEY, EGAN AND PICKMERE, LTD.**, have vacancies for SENIOR ENGINEERING SITE STAFF on sewerage and sewage disposal works contracts in England and Wales. Applications are only invited from men with substantial previous experience of work in difficult ground conditions.—Apply in writing to 24 Calthorpe Road, Edgbaston, Birmingham, 15.

**SUPERVISOR REQUIRED BY CONSTABLE HART AND CO., LTD.**, to work in Midlands, based at Derby. Applicants must be fully experienced and conversant with all types of surfacing. Pension scheme in force, and car would be provided. Apply in writing, in first instance, to H.G. Constable, Hart and Co., Ltd., Lion House, Richmond, Surrey, giving full particulars and salary required.

**RUDDOCK AND MEIGHAN, LTD.**, REQUIRE AGENTS, SITE ENGINEERS for civil engineering contracts and sewerage disposal works, also salary pension scheme. Some assistance with housing may be considered.—Full details to Burford House, Harrow View, Wealdstone, Middlesex.

**YOUNG ENGINEER REQUIRED** for expanding contractors' depot in connection with drawings and estimates for precast concrete, shuttering and other work. Superannuation scheme.—Apply in writing, stating age, experience, and salary required, to J. KIER AND CO., LTD., Setch, King's Lynn, Norfolk.

## J. I. CASE CO., LTD.

REQUIRE A RESIDENT SERVICE ENGINEER for the south western counties (Gloucester to Cornwall). Applications are invited from men who are fully experienced in the servicing of wheeled and crawler tractors. The successful applicant must be prepared to start initially, up to six months' training at a J. I. Case Service Centre.—All applications (which will be treated in absolute confidence) should be marked confidential and sent to:

The Service Manager,

J. I. CASE CO., LTD.,  
Grangefield Works, Grangefield Road, Stanningley,  
Near Leeds, Yorkshire.

**ENGINEERS REQUIRED** for major road improvement schemes in the Home Counties area. Experienced in site survey, programming, supervision of structures, and general site requirements.—Apply in writing, giving full details of past experience, to salary required, to The Contracts Manager, FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, London, E.3.

**SITE AGENT REQUIRED** for £100,000 sewerage scheme. Permanent position offered to right man, not afraid of hard work, with experience in sewers, timbering, shuttering and tunnelling—experience in programming would be preferable, payment by results would be made in addition to salary. Assistance would be given in housing accommodation.—Write in first instance, stating experience, salary required, and background, to F. W. DAVIES AND CO., Building and Civil Engineering Contractors, The Rhewl, Gobowen, Salop. Tel.: Gobowen 270.

**GENERAL FOREMAN**, experienced in sewers and sewage work, with experience in timbering, shuttering, blasting, pipe-laying and tunnelling. REQUIRED: experienced in programming would be an advantage. Position could be permanent. Assistance would be given in housing accommodation.—Write, stating salary required, experience, and background, to Box V.3907, "The Contract Journal."

**WORKS MANAGER REQUIRED** for plant depot of a national civil engineering contractors. Age late 20s to early 30s. Applicants should have experience in civil engineering contracting, preferably on plant. Salary will be in accordance with age and experience. This post offers excellent opportunities within a large organisation.—Apply in writing to Box V.3918, "The Contract Journal."

**MEARS BROS. (CONTRACTORS), LTD.** (Civil Engineering Contractors, Head Office: 154 Sydenham Road, London, S.E.26), have vacancies in this country for AGENTS having some years' experience in site charge of contracts, with ability to organise and handle all aspects of the work, and to take the full account, and willing to co-operate in estimating and planning if so required. Qualification desirable, and wide scope of work available.—Applications in writing, giving particulars of experience, previous employers, and salary grade, will be treated in strict confidence by the Personnel Manager at the above address.



## APPOINTMENTS VACANT

**MATERIAL CLERKS**, previous experience essential. **REQUIRED**.—Apply, stating age, past experience, and salary required, to **A. MONK AND CO., LTD.**, Green Lane, Padgate, Warrington.

**COST CLERK**, civil engineering site office, Crawley area. Experienced unit costing, wages and materials.—Apply in writing to Chief Accountant, **AMALGAMATED ASPHALTE COMPANIES, LTD.**, Pear Tree Wharf, Greenwich.

**GENERAL FOREMAN** REQUIRED to supervise site covering 10 acres, under civil engineering agent. Primary requirements are initiative, drive, and ability to control a multiplicity of operations, for which a commensurate wage will be paid.—Full particulars to **RUDDOCK AND MEIGHAN, LTD.**, Burford House, Harrow View, Wealdstone, Middlesex.

## DRAWING OFFICE CLERKS, DRAUGHTSMEN AND R.C. RETAILERS

**REQUIRED** by precast concrete specialists making concrete buildings and precast flooring systems. Experience in building construction is desirable, but for Scheduling Clerks, intelligence and accuracy are the only essential qualifications. The company offers canteen facilities, local transport arrangements, special insurances, superannuation, permanent positions and a salary commensurate with qualifications and experience.—Apply to:

The Senior Structural Engineer,  
**MARLEY CONCRETE, LTD.**,  
Peasmarsh, Guildford, Surrey.

**TARMAC CIVIL ENGINEERING, LTD.**, have vacancies on their outside contract staff for **OFFICE MANAGERS** and **ASSISTANT OFFICE MANAGERS**, and **SITE CLERKS** to train as Office Managers. Good remuneration and prospects of advancement, continuity of employment to suitable applicants experienced in any of the above positions, who are prepared to travel.—Apply in writing, stating age, details of previous employment (which will be treated as strictly confidential), to Personnel Officer, **TARMAC CIVIL ENGINEERING, LTD.**, Ettingshall, Wolverhampton.

**FOREMAN**. Ambitious man with sound site experience, particularly in high-quality reinforced concrete work. **REQUIRED**.—Apply in writing to **KOTTLER AND HERON, LTD.**, Cliftonville, Northampton.

**SENIOR AND JUNIOR CIVIL ENGINEERS** REQUIRED by contractors, for site work in various parts of East Midlands and Lincolnshire. Senior Engineers should have contracting experience, particularly in R.C. or road or airfield construction. Experience not essential for Junior Engineers. Permanent positions for suitable applicants, with opportunities for further experience and advancement. Superannuation after trial period.—**A. MONK AND CO., LTD.**, P.O. Box No. 4, Stamford, Lincs.

## DOW-MAC (PRODUCTS), LTD.

(A member of the Dowsett Group), Tallington, Stamford, Lincs. Leading specialists in the supply of prestressed concrete for all types of civil engineering work. **REQUIRED** **STRUCTURAL DESIGNERS** and **DETAILERS** in all grades for work comprising the analysis of structures such as bridges, multi-storey buildings, etc., into precast concrete elements, both in reinforced and prestressed concrete, including application and development of prestressing techniques. Degree or equivalent preferred, but training given in prestressed concrete. Salaries in the range £1,100-£1,500 for top grade, but vacancies in all grades. The offices are situated in a pleasant country district with free transport from town. Five-day week. Successful applicants will have furniture removal expenses paid and four weeks' free accommodation on engagement.—Applications, in writing, to:

Technical Director,  
**DOW-MAC (PRODUCTS), LTD.**,  
Tallington, Stamford, Lincs.

**LEADING** firm of old-established asphalt contractors have vacancy for **MASTIC ASPHALT SUPERVISOR** in West of Scotland. He should reside in or near Glasgow and must be sound organiser with first-class experience of building industry.—Written applications, giving full details of age, qualifications and experience, to Box V.3917, "The Contract Journal."

**THE LONDON FERRO-CONCRETE CO., LTD.**, **REQUIRED** **SENIOR ESTIMATOR** experienced in tendering for building and civil engineering work. Pension scheme. Possible assistance with housing. Apply, giving full details of age, experience, and salary required, to Chief Estimator, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts. Tel.: Boxmoor 3810.

**MIXCONCRETE, LTD.**, **REQUIRED** experienced **READY MIXED CONCRETE MANAGER** for their plant at Dunstable, Beds.—Please write, stating age, experience, and salary required, to Mixconcrete, Ltd., Billing, Northampton.

**AGENT** **REQUIRED** for sewerage and sewage disposal contract in West Country. Duration approx. two years, with good future prospects for right applicant. Previous experience essential.—Write, giving details, to Box V.3934, "The Contract Journal."

## SUPERVISOR

**REQUIRED** by **CONSTABLE HART AND CO., LTD.**, to work in Midlands, based at Derby. Applicants must be fully experienced and conversant with all types of surfacing. Pension scheme in force, and car would be provided.—Apply, in writing, in first instance, giving full particulars and salary required, to:

"H. G.",  
**CONSTABLE HART AND CO., LTD.**,  
Lion House, Richmond, Surrey.

**GENERAL FOREMEN AND GANGERS** **REQUIRED** for civil engineering contracts in the Midlands area.—Apply in writing to Personnel Officer, **TARMAC CIVIL ENGINEERING, LTD.**, Ettingshall, Wolverhampton.

**EXPERIENCED ESTIMATOR** **REQUIRED** by civil engineering contractors in the West Riding of Yorkshire. Applicants should have considerable site experience and be able to estimate for medium-sized projects with the minimum of supervision. The appointment is permanent and offers good conditions of employment. A contributory pension scheme is in operation.—Write Box V.3942, "The Contract Journal."

## APPOINTMENTS VACANT

**EXPERIENCED SITE ENGINEERS** **REQUIRED** for road and sewer contracts in Oxford City. Pension scheme and good prospects with expanding organisation.—Apply in writing, stating age, experience, and previous employers, to **TILBURY CONSTRUCTION CO., LTD.**, Ruscombe Works, Twyford, Berks.

**SOUTH COAST** plant hire and selling company have vacancies for **FIELD SERVICE PLANT FITTERS** and **WORKSHOP FITTERS**. Applicants should be especially familiar with hydraulic excavators, crawler tractors and air compressors. Temporary or permanent accommodation available for single men or families.—Write Box V.3938, "The Contract Journal."

**BONUS ENGINEER**, experienced in concrete work, **REQUIRED** to operate the site incentive bonus scheme. Applicants will be based on head office and a car will be provided.—Write in confidence, giving age and experience, to Contracts Manager, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts.

## GENERAL MANAGER

Industrial builders in West of Scotland are desirous of appointing a **GENERAL MANAGER** to inaugurate and develop a structural concrete division. The minimum requirement is for a fully experienced man who has been responsible both for the administration and site execution of projects such as multi-storey flats and office buildings, and a structural design background would be an added recommendation. The post will provide ample scope for a man of ability and enthusiasm and will carry a salary commensurate with experience. If required, a house will be provided for the successful applicant.—Please write, in confidence, stating age, present remuneration, and giving full details of experience, to:

Managing Director,  
**BOX 3030, WILLIAM PORTOUS AND CO.,**  
Glasgow.

**WAYWARDEN, LTD.**, **REQUIRED** experienced Civil Engineering Agent as **CONTRACTS MANAGER** for road construction and surfacing.—Only keen men write Managing Director at 215 Forest Road, E.17, with full particulars of past experience, qualifications, and salary required.

**PLANT MANAGER/SUPERVISOR** **REQUIRED**. To run and expand plant hire fleet. Mechanical knowledge essential.—**GEO. E. CLOKE, LTD.**, Neasden Lane, London, N.W.10.

**CHARGEHAND FITTER** **REQUIRED** for opencast coal site in Derbyshire.—Apply **ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, 209 Walsall Road, Perry Barr, Birmingham.

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, **A FOREMAN FITTER** is **REQUIRED** to take charge of contractors' plant on a large civil engineering and building contract in Glasgow about to commence. Applicants should be fully experienced in the maintenance and repairs of all types of civil engineering plant, including heavy excavating machinery. Good prospects of a permanent position for the right man. A pension scheme operates. Applications in writing, stating age, qualifications, previous experience, and salary required, to H. Shaw, Plant Manager, Robert M. Douglas (Contractors), Ltd., Main Plant Depot, 209 Walsall Road, Birmingham.

## STEELWORK DRAUGHTSMAN

**REQUIRED**. Consulting field. Experience in light and heavy construction. Necessarily initial salary to be agreed on experience and qualifications, which details please send to:

**BOX V.3901, "THE CONTRACT JOURNAL"**

**GENERAL FOREMAN** **REQUIRED** for precast and in-situ concrete work. Applicants should be mobile, and experience in precast concrete erection would be an advantage.—Write, stating age, experience and present salary, in confidence, to Contracts Manager, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Close, Hemel Hempstead, Herts.

**ESTIMATOR** **REQUIRED** by old-established and rapidly expanding firm of building and civil engineering contractors. Candidates must have had at least 10 years' successful experience in tendering for contracts up to £500,000, both in building and civil engineering, and be fully conversant with modern methods of analysis of rates, and be capable of working with minimum supervision.—Apply in confidence, giving full details of age, experience, age, and salary required, to **WM. EAVES AND CO., LTD.**, Vicarage Lane, Blackpool.

**PLANT MANAGER**.—Qualified Mechanical Engineer with fleet maintenance and general engineering workshop. Applicants should have had previous managerial and commercial experience with contractors' plant, or similar. Ability to organise scheduled maintenance is essential. Commencing salary in region of £1,200 p.a., according to ability and experience; bonus: superannuation scheme; car provided. North Midlands area.—Write fullest details, in confidence, to Box V.3939, "The Contract Journal."

## TARMAC

Have vacancies for:—

**AGENTS**  
**ENGINEERS**  
**LABORATORY ENGINEERS**  
**QUANTITY SURVEYORS**

Permanent appointments with good prospects, salary commensurate with experience. Bonus and superannuation schemes in operation. Applications to:

Personnel Manager,  
**TARMAC CIVIL ENGINEERING, LTD.**,  
Ettingshall, Wolverhampton.

**CIVIL ENGINEER WANTED**, with practical experience in all branches of civil engineering, public works, contracting, etc., including management, estimating and costing. Contracts £5,000 to £100,000. Salary, car, and pension scheme: annual bonus on results. Opportunities for promotion in South-East area.—Write full particulars, in confidence, stating salary required, to Box V.3940, "The Contract Journal."

**EXCEPTIONAL OPPORTUNITY** for **CIVIL ENGINEER** with construction site experience to assist in further development of steel shuttering system. Permanent position based on Birmingham. Good salary and pension scheme.—Full details experience, etc., to the Secretary, **RAPID METAL DEVELOPMENTS, LTD.**, 395 George Road, Birmingham, 23.

## APPOINTMENTS VACANT

**CONTRACTS MANAGER**.—Yorkshire firm of building contractors **REQUIRED** experienced Contracts Manager. Excellent prospects with progressive company.—Write, stating age, full details of training, experience, and salary required, to Box V.3941, "The Contract Journal."

**TURRIF CONSTRUCTION CORPORATION, LTD.**, **REQUIRED** several **SITE ENGINEERS** for contracts throughout the Midlands. Good setting-out and technical supervisory experience required. Proven record of success on large building civil engineering sites. Attractive salaries, bonus scheme, life assurance, with excellent prospects for permanency and promotion.—Write personal and experience details to Group Personnel Manager, Turriff Construction Corporation, Ltd., Budbrooke Road, Warwick.

## SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD.

**ASSISTANT PRODUCTION ENGINEER**.—**CIVIL ENGINEER** (preferably 25-30 years) to act as Assistant Production Engineer in a direct labour organisation undertaking extensive multi-storey flats and other housing work. Site experience in building and civil engineering jobs essential, and experience of operational planning and/or work study methods an advantage. Headquarters will be in Glasgow. Post superannuable under Local Government Superannuation Acts. Salary scale £895-£1,385 per annum, with qualifications for experience.—Applications, stating age, qualifications and experience, to:

The Secretary,  
**SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD.**,  
19 Palmerston Place, Edinburgh, 12.

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, **REQUIRED** the following staff for civil engineering work in Scotland: **AGENT** and **SUB-AGENT**; **SITE ENGINEERS**; **QUANTITY SURVEYORS**; **OFFICE MANAGER/CASHIER**; **TIMEKEEPERS**; **SURVEYORS** and **CLERKS** to deal with unit costing and bonus; **SITE STOREKEEPER**; **GENERAL FOREMAN**; **TRADES FOREMEN** and **GANGERS**.—Applications in writing, stating age, qualifications and previous experience, to Robert M. Douglas (Contractors), Ltd., 395 George Road, Birmingham, 23.

**QUANTITY SURVEYOR** for the London area **REQUIRED** by **MYTON, LTD.** (a member of the Taylor Woodrow Group). Must be experienced in preparation of interim and final accounts, and in position, with good prospects.—Replies in confidence, with full particulars, to Personnel Manager, Myton, Ltd., Western House, Western Avenue, Ealing, London, W.5.

**EXPERIENCED QUANTITY SURVEYOR** **REQUIRED** for civil engineering firm operating in Africa. Duties will include firstly site measurement and final account work on a contract in Nigeria. Applicants should be between 30-35 years old, with at least 10 years' experience. Previous overseas service would be of advantage. 18-months contract offered in the first instance, with good prospects of continuity for the right man. Please write, stating age, experience, and particulars of previous experience, to Box V.3904, "The Contract Journal."

## THE LYON GROUP

**REQUIRED** **AGENTS** and **GENERAL FOREMEN** capable of taking complete charge of large industrial, commercial and domestic developments, including multi-storey structures in reinforced concrete. These positions will be well paid and offer great opportunities of advancement with an expanding group for determined and capable men.—Apply:

**RONALD LYON CONSTRUCTION, LTD.**,  
Auckland House,  
New Zealand Avenue, Walton-on-Thames, Surrey.

**BUILDERS' SURVEYOR**, under 30, **REQUIRED** for expanding South-Western Area office. Initially for a major contract in Plymouth, to carry out valuations, measure with Quantity Surveyors and sub-contractors, etc.—Details to **HUMPHREYS, LTD.**, Market Road, Plymouth, Devon.

**LARGE** Midlands public works contractors **REQUIRED** **AGENT** **SENIOR GENERAL FOREMAN** to supervise contracts and develop expanding outside organisation.—Written applications, stating age and brief details of experience, to Box V.3969, "The Contract Journal."

**PLANNING ASSISTANT** **REQUIRED** by building and civil engineering contractors in North West. This is an attractive and progressive position for young man with initiative. Permanent and pensionable. Write full details of age, experience, and salary required, to Box J.237, Thompson's Advertising, Northwich, Cheshire.

**YOUNG MAN** with ability **REQUIRED** to act as **DEMONSTRATOR AND SERVICE ENGINEER** in connection with sales of small mechanical equipment to builders and contractors throughout Essex.—Write, stating age and experience, to Box V.3961, "The Contract Journal."

## CATERPILLAR DEMONSTRATORS

Vacancies exist with the sales staff of **BOWMAKER (PLANT), LTD.**, for highly skilled **OPERATORS** of Caterpillar wheel loaders, scrapers and excavators. They will be required to demonstrate all types of Caterpillar equipment and, in addition, will have ample opportunity to graduate to other positions of responsibility in the machine sales department. Initial salary of £1,000 per annum, plus transport or car allowance and all reasonable expenses.—Applicants, whose age should not exceed 30 years, are asked to apply, giving full details of their experience, to:

The Sales Director,  
**BOWMAKER (PLANT), LTD.**,  
Watling Street, Cannock, Staffs.

**CONTRACTS MANAGER** **REQUIRED** at once by old-established expanding company for work in the Midlands region. Applicants should possess initiative and drive, and be able to supervise personnel. The post is pensionable, and the successful applicant would be expected to reside in or near Birmingham.—Write Box V.3970, "The Contract Journal."

**TURRIF CONSTRUCTION CORPORATION, LTD.**, **SENIOR SITE ENGINEER** with proven record of ability to control large contracts. Must have experience of multi-storey reinforced frames. Very attractive salary, pension and bonus schemes. Permanent and progressive appointment.—Write, stating age, experience, and salary, to Group Personnel Manager, Turriff Construction Corporation, Ltd., Great West Road, Brentford, Middlesex.



## APPOINTMENTS VACANT

**CIVIL ENGINEER**—A vacancy has arisen for a young Civil Engineer, aged 25 to 30 years, for interesting and varied work in Ghana. Applicants, as a minimum qualification, should have passed, or been exempted from, Parts I and II of the I.C.E. professional examinations, and should have had some practical experience in surveying and general construction works, preferably associated with roads or railways. The appointment can be permanent and pensionable, and offers a good initial salary, depending on qualifications and experience. Interviews will take place in London.—Applications, giving full details of age, qualifications and experience, should be made in writing to the Personnel Officer, Box V.3966, "The Contract Journal."

**TURRIF CONSTRUCTION CORPORATION, LTD.** SENIOR QUANTITY SURVEYOR, SENIOR COST AND BONUS SURVEYOR. Excellent opportunity for men of experience drive and initiative to enhance their experience on this work of national importance. Attractive salary, bonus and pension schemes. Permanent and progressive appointments.—Write to call: Group Personnel Manager, Turrif Building, Great West Road, Brentford, Middlesex.

## CEMENT AND CONCRETE ASSOCIATION

**TECHNICAL ADVISORY STAFF**—The Association wishes to appoint an additional MEMBER to its Technical Advisory Staff for work which will chiefly be in the field of highway construction. The successful applicant will be required to visit road sites in the United Kingdom to advise on constructional methods and to assist in practical research on roads and related matters. Previous experience with a local authority, contractor or other body responsible for road work would be an advantage.—The post is permanent and pensionable, and further information can be obtained from:

The Chief Advisory Engineer,  
CEMENT AND CONCRETE ASSOCIATION,  
52 Grosvenor Gardens, London, S.W.1.

**YOUTH, 16/18, WANTED** by rapidly expanding plant hire and sales company to learn all aspects of business. Excellent prospects to keen, hard-working person.—**DUDLEY VALE, LTD.**, 3 Buckingham Place, London, S.W.1. VICTORIA 0252.

**QUANTITY SURVEYOR** for medium-sized builders in Mid-Wales and Shropshire Border with experience of small- and medium-sized jobs. Capable of dealing from inquiry to final certificate. Please state experience, and salary required. Assistance with accommodation.—Write Box V.3962, "The Contract Journal."

**ASSISTANT BUILDERS' SURVEYOR REQUIRED**, preferably with experience in the office of a Quantity Surveyor or a good-class builder. The position carries a good salary with prospects for an ambitious young man about 25 years of age.—Apply **WILLIAM DAVIS AND CO. (LEICESTER), LTD.**, Forest Field, Forest Road, Loughborough, Leics.

**YOUNG ENGINEER-AGENT** required by civil engineering contractors, for shaft sinking and tunnelling contract in Mid-Wales. Some experience in this type of work necessary. Technical qualifications an advantage. Prospect of permanency with expanding organisation.—Written applications, stating full particulars, etc., to Box V.3963, "The Contract Journal."

## CUBITTS

**HOLLAND & HANNEN AND CUBITTS (G.B.), LTD.**, have vacancies available.

SEE PAGES 82 and 83.

**COST CLERK REQUIRED** on large civil engineering contract in North-East England. Applicant must be experienced in the production of unit cost on heavy civil engineering work and must be capable of working on their own initiative with the minimum of supervision.—Apply in writing, giving details of past experience, and salary required, to the Agent, **THE DEMOLITION AND CONSTRUCTION CO., LTD.**, Tees Dock, No. 1 Quay, Grangetown, near Middlesbrough.

**GENERAL BUILDING CONTRACTORS**—ASSISTANT to Managing Director REQUIRED for group of companies, etc., in North-West Midlands. Practical experience of interim and final accounts, estimating costing and general office management, essential. Pension scheme. Use of car. Housing accommodation can be arranged.—Reply, with full particulars, to **LANCASTER, KING, RIDGWAY AND CO.**, Queen's College Chambers, Paradise Street, Birmingham, 1.

**APPLICANTS** are invited to apply for the position of **CIVIL ENGINEERING AND REINFORCED CONCRETE DRAUGHTSMAN**.—Please write, giving details of past experience, salary required, etc., to Box V.3958, "The Contract Journal."

## CONTRACTS MANAGER

Civil engineering company.—**CONTRACTS MANAGER REQUIRED** by a civil engineering company engaged mainly on roads construction in the Home Counties, South Coast and West Country. The preferred age range is 35-45, and the applicant should have an extensive experience in this class of work, plus initiative and drive. The appointment will be based on the company's head office in Surrey. Salary will be in accordance with ability and experience, but will not be less than £1,500 p.a., with car provided. Subject to satisfactory probationary period, superannuation facilities will be offered.—Write, in confidence, stating age, experience and present salary, to:

BOX V.3699, "THE CONTRACT JOURNAL."

**A SENIOR TECHNICAL REPRESENTATIVE** IS REQUIRED by a substantial company to specialise in plastic films as applied to civil engineering and building. The post, which will be based in London, offers considerable scope for original thought and advancement. Candidates should have experience in the civil engineering and building industry, and preferably be men between 30 and 35.—Applications, stating salary required, should be made in writing to Box V.3836, "The Contract Journal."

**DRAUGHTSMAN REQUIRED** on agricultural estate, West Sussex, to work with the Clerk of Works on preparation of plans, planning applications, and on major programme of cottage modernisation and farm building work. Post would be useful experience for young man, but consideration would be given to more experienced applicants. A cottage could be available for a married man. Salary according to experience. Write, with full details of experience, and salary required, to Box V.3964, "The Contract Journal."

## APPOINTMENTS VACANT

**PLANT ENGINEER REQUIRED** immediately, to take charge of workshop maintenance and repair of all construction plant and plant hire, permanent appointment, with contributory pension fund after a year's trial period.—Apply, stating age, past experience, and salary desired, to **W. A. DAWSON, LTD.**, Sundon Park, Luton.

**GENERAL FOREMAN REQUIRED** for small civil engineering firm on South Coast, to supervise several small contracts from £10,000 to £40,000, mainly sewers, street works and surfacing. Must have practical experience and over 40 years of age. Car provided.—Write salary required to Box V.3949, "The Contract Journal."

**REPUTABLE** Leeds public works contractor has vacancy for **ENGINEER-AGENT**. A permanent remuneration post for an experienced, adaptable man aged 30-40. The scope of work covers the whole field of civil engineering. Qualifications preferred but not essential. Write in confidence to Box V.3956, "The Contract Journal."

## JNO. CROAD, LTD., PORTSMOUTH

Building contractors and engineers. Member of the Trollope and Colls Group. have vacancies for the following technical staff—

**TWO CONTRACTS MANAGERS** Capable of organising and supervising building and light civil engineering contracts up to £300,000, with the ability of producing a high standard of work.

**TWO ASSISTANT CIVIL ENGINEERS** Applicants should have at least three years' site experience on reinforced concrete work, and be conversant with the requirements necessary for the supervision of civil engineering and building contracts.

**ESTIMATOR** Capable of preparation and pricing of plan and specification estimate and bills of quantities on a wide variety of building works.

**TWO ASSISTANT QUANTITY SURVEYORS** Experience in measuring for final accounts interim payments and agreeing sub-contractors' accounts.

**TECHNICAL ASSISTANT** This appointment offers a wide scope to an individual who has a sound knowledge of building construction, with the ability to prepare detailed drawings on varying contracts.

**THREE GENERAL FOREMEN** Experienced men required for general building and light civil engineering contracts of £300,000 value. All the above positions are permanent and the successful applicants will be required to initiate the Portsmouth area.—Apply by letter, giving age, full details of experience, salary required, in strict confidence, to:

K. Kanavan, A.I.O.E., Technical Director,  
JNO. CROAD, LTD.,  
Portland Street, Portsmouth.

**GENERAL FOREMAN**, fully experienced and cost-conscious. REQUIRED for work in and around the London area. State age, experience, and salary. Write **JENNERS BUILDERS, LTD.**, 22 High Road, Woodford Bridge, Essex.

**CONTRACTORS** specialising in the sawing and sealing of joints have immediate vacancy for **YOUNG MAN** with civil engineering experience. This is an excellent opportunity for a person with initiative and good education to follow up inquiries and supervise contracts.—Write in confidence, giving details of experience, and salary required, to Box V.3957, "The Contract Journal."

**EXPERIENCED CASHIER/COST CLERK** urgently REQUIRED for large opencast coal site in South Wales. Excellent salary and prospects to successful applicant.—Apply in first instance to **SIR LINDSAY PARKINSON AND CO., LTD.**, Templemeads, Halton, Leeds.

**CLERK OF WORKS REQUIRED** for new teachers' training college at Bangor, North Wales. Approximate starting date of 14-month contract will be June, 1961. Salary within the range £1,000-£1,250 p.a., according to qualifications and experience.—Reply, giving particulars and names of two referees, to **C. W. GLOVER AND PARTNERS**, Francis House, Francis Street, London, S.W.1.

**EXPERIENCED REINFORCED CONCRETE DESIGNER** IS REQUIRED to work in the head office, situated in North-West England, of an expanding contractor. Applicants must have experience of the design of in-situ and precast structures, and will also be required to take a leading part in the activities of a newly formed precast concrete works. He should also have extensive experience of the design of form work in both in-situ and precasting fields.—Write, stating details of age, experience, qualifications, and salary required, to Box V.3946, "The Contract Journal."

## SITE ENGINEERS

Between 22 and 30 years of age are required for the Midlands area.

**A FURTHER SITE ENGINEER** Between 22 and 25 years of age is required for our site at M.C.B. New Colliery, Knottingley, East Yorks. Permanent, progressive appointments with superannuation, subsistence and bonus for applicants with site experience.—Reply, in confidence, giving details of qualifications and site experience, to:

**SIR ALFRED MCPALPINE AND SON, LTD.**,  
45 Waterloo Road, Wolverhampton.

**BUYER REQUIRED** for company expanding on contractors and builders plant manufacture. Age below 40.—Write, stating salary expected, to Box V.3971, "The Contract Journal."

**COST CLERK REQUIRED**, London office, expanding building company. For cost and analysis.—Apply, own handwriting, stating age, experience, salary, to Box V.3973, "The Contract Journal."

**YOUNG ENGINEER** to train as AGENT, rapidly expanding company, good chance to show initiative.—Write Contract Manager, **DRAGON PLANT HIRE, LTD.**, Guildford.

**ENGINEER REQUIRED**, aged 23-28 years, with minimum three years' site experience, for small but expanding company on South East Coast. This would be an appointment offering a good variety of work and experience. Excellent opportunity for advancement.—Write, giving full details, to Contracts Manager, **THE WINGHAM ENGINEERING CO., LTD.**, Wingham, Canterbury.

**SALES EXECUTIVE REQUIRED** to take charge of and develop the sales of new and second-hand contractors' and quarry plant. The successful applicant must have the ability to sell from inside, to maintain a sales office and to guide the activities of outside representatives.—Applications, in confidence, to General Manager, **SEARCH (LIVERPOOL), LTD.**, Hammond Road, Kirby Trading Estate, Liverpool.

## APPOINTMENTS VACANT

**JUNIOR SITE ENGINEER REQUIRED** on the Reading sewage disposal works contract. Experience in setting-out and levelling necessary.—Apply in writing, stating experience, and salary required, to **COLLIER AND CATLEY, LTD.**, Kings Meadow Road, Reading.

**A MEDIUM-SIZED** highly mechanised firm of playing field and land drainage contractors REQUIRE a fully experienced **PLAYING FIELD FOREMAN**, capable of taking complete charge of contracts from earthmoving to seeding. The position offered is permanent, salaried bonus paid on results.—Apply, with full details, in confidence, for the personal attention of Mr. John Flood, **FLOODS OF QUEENS FERRY**, Rectors Lane, Pentre, Queensferry, Chester.

**TIMEKEEPER/SITE CLERK REQUIRED** for civil engineering contract in Lancashire. Previous experience not essential, although desirable. Good prospects and permanency offered to suitable applicant.—Written applications, stating full particulars, to Box V.3968, "The Contract Journal."

**CLERK OF WORKS REQUIRED** for the building of Carmel College, near Wallingford, Berks., from end of June, 1961, to the end of 1962, with the possibility of permanent employment by the school as instructor/buildings manager. Salary £1,000-£1,200, according to experience.—Apply in writing to **MORTON LUPTON, Architects**, 1 Church Lane, Wallingford, Berks.

**SITE ASSISTANT REQUIRED** for setting-out works, etc. Extensive experience not essential, as initially guidance is available. For right man would be opportunity to develop on measurements side to site Q.S. Staff position and such previous experience advantageous. Site location Greater London.—**SIR ALEXANDER GIBB AND PARTNERS**, Queen Anne's Lodge, S.W.1.

**FIRST-CLASS AGENT REQUIRED** for large building contract in West Country district. A good salary is offered to the right man, who must possess drive, ambition and initiative. Other details such as bonus, etc., can be discussed during interview.—Write in confidence, stating age, experience, and previous employers, to Box 1036, c/o Murray and Phelan, Ltd., Columbia House, Aldwych, W.C.2.

**FIRST-CLASS GENERAL FOREMAN REQUIRED** area.—Write, stating age, experience, and previous employers, to Box 1037, c/o Murray and Phelan, Ltd., Columbia House, Aldwych, W.C.2.

For Advertisements received too late for classification see page 137

## APPOINTMENTS WANTED

**CATERPILLAR SALESMAN** REQUIRES PROFITABLE AREA. Experienced full range agricultural and earthmoving. Peoria trained.—Write Box V.3910, "The Contract Journal."

**SUCCESSFUL** and ambitious **SALES MANAGER**, earthmoving, engine, tractor and agricultural implements REQUIRES POST with manufacturer or dealer U.K., Europe, W. Africa, S. America, W. Indies or Middle East. English aged 35. Factory-trained two leading makes U.S.A. earthmoving plant and British agricultural tractor. Highest commercial re-sugar, coffee, tea, arable, mining, logging, earthmoving, bush and forest clearing, public works. travelled—Europe, Middle East, Africa, U.S.A. Administrative experience spares and service. Available U.K. mid-April.—Write Box V.3469, "The Contract Journal."

**GENERAL FOREMAN**, civil engineering, roads and sewers, deep trunk sewers, bulk excavation, setting out, levelling and measurement.—Write Box V.3943, "The Contract Journal."

**VIGOROUS** and energetic **CONTRACTS MANAGER** SEEKS CHANGE. First-class building experience, R.C. contracts, schools, flats, industrial buildings, etc. Age 35. C. and J. Appreciates and applies cost control, pre-planning, and can control. Capable of managing complete business under a board of directors.—Write Box V.3944, "The Contract Journal."

**CIVIL ENGINEER**, British graduate, with three years' design experience, at present Site Engineer on R.C. construction, SEEKS SIMILAR APPOINTMENT with chances of overseas visits.—Write Box V.3977, "The Contract Journal."

**CIVIL ENGINEERING AND BUILDING GENERAL MANAGER** SEEKS EARLY APPOINTMENT with well-established concern in similar capacity or as Contracts Manager. Vast and varied experience in all departments, and can control from inquiry to completion. Drive, personality and top-class ability. Wide range of contracts over the country. Highest references.—Write Box V.3959, "The Contract Journal."

**CONTRACTS MANAGER—PUBLIC WORKS**—SEEKS CHANGE. London area. Over 30 years' experience—all aspects. Roads, sewers, outfalls, sea defences, headings, disposal works, bridges, river diversions, jetties, piling, concrete, timber or sheet steel, reinforced concrete projects, including estimating for and the preparation of tenders for the above, measuring for interim and final accounts. All necessary office administration and correspondence. Negotiating with clients, etc.—Salary required, £1,750-£2,000.—Write Box V.3976, "The Contract Journal."

**CHARTERED ACCOUNTANT / COMPANY SECRETARY** with building trade experience offers his services on a part-time basis. Fully conversant with all accountancy matters, including costing and taxation.—Write Box V.3972, "The Contract Journal."

## WORK REQUIRED

**WANTED. EXCAVATION, SITE CLEARANCE AND DEMOLITION WORK.** R. BARKER (PECKHAM), LTD., New Cross 3337.

**SITE CLEARANCE CO., LTD.**, specialists in removal of trees and roots. Employing an Engineer and Demolition Contractors.—Delph Dene, Quarry Lane, Appleton, Warrington. Telephone: Stockton Heath 309.

**DISMANTLING and/or RE-ERECTION**—Stripping and Resheeting, T2, B1 Hangars, any type of Steelwork, and Plant, etc., Sheet piling, stripped and removed. Distance no object.—**BEDS. DISMANTLING AND DEMOLITION CO.**, 3 Luke Street, Bedford. Telephone: Bedford 66033.

**IF GRADING, SEEDING, TURFING AND PLANTING** form part of your CONTRACT, we will be pleased to quote you.—**HOLDROP**, 139 Reits Hill, Barnet. Telephone 9111.

**BULK EARTHMOVING**, direct contract or sub-contract. Also **BULLDOZERS** and **SCRAPERS** for HIRE.—**FRANK R. WALPOLE, LTD.**, 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.



**LEOPOLD FARMER & SONS**  
Industrial Property Specialists  
**AUCTION SALES & VALUATIONS**  
46 GRESHAM STREET E.C.2  
Surveyors, Valuers & Auctioneers

**WORK REQUIRED**

**EARTHMOVING** of any description undertaken by **SAM BOOTH, LTD.**, 75 Victoria Street, Telephone: Sullivan 3791 and Harward Heath 1126.

**WANTED. HIRE OR CONTRACT WORK** for modern fleet of DW21s, D9s, D8s, 15-ton Rear Dump Euclids and 36RB Face Shovel. Apply **BRODERICK AND RYAN, LTD.**, 421 Nottingham Road, Ilkeston, Derby. Telephone 4361/2.

**BULK EXCAVATIONS AND SITE WORKS** undertaken. Direct or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—**S. AND L. BULL BROS., LTD.**, 126A High Street, Winchester. Telephone: Winchester 2264.

**BULK EXCAVATION WANTED.**—We have our own staff of qualified Civil Engineers, and have the following machines ready for work: D9s, D8s, D6s, D4s, with Dozers, Scrapers and Rotters. Also Ruston excavators with all equipments, and a fleet of new Tipping Lorries. No job is too small or too large. **SMITHS PLANT HIRE AND CONTRACTORS' (CHELTENHAM), LTD.**, Southam Court, 30 Prestbury Road, Cheltenham Glos. Tel. 52021/56419/56473.

**BULK EXCAVATIONS.** any quantity quoted for. Own plant and lorries. **COFF AND SON (EXCAVATIONS), LTD.**, Buckhurst Hill, Chesham, Asot, Berks. 1026/7/8.

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**EXCAVATION SUB-CONTRACTS.** Technical staff available to analyse programme and price complex projects. Particular attention given to finish and compaction. D9, D8, TD18 and TD14 Scrapers, Excavators, Loading Shovels and Lorries available with competent and imaginative supervision for execution of work.—**DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants.** Tel.: Bentley 3241.

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**CANNOCK URBAN DISTRICT COUNCIL.**

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**H. C. ALLEN,**  
Clerk of the Council.

Council House,  
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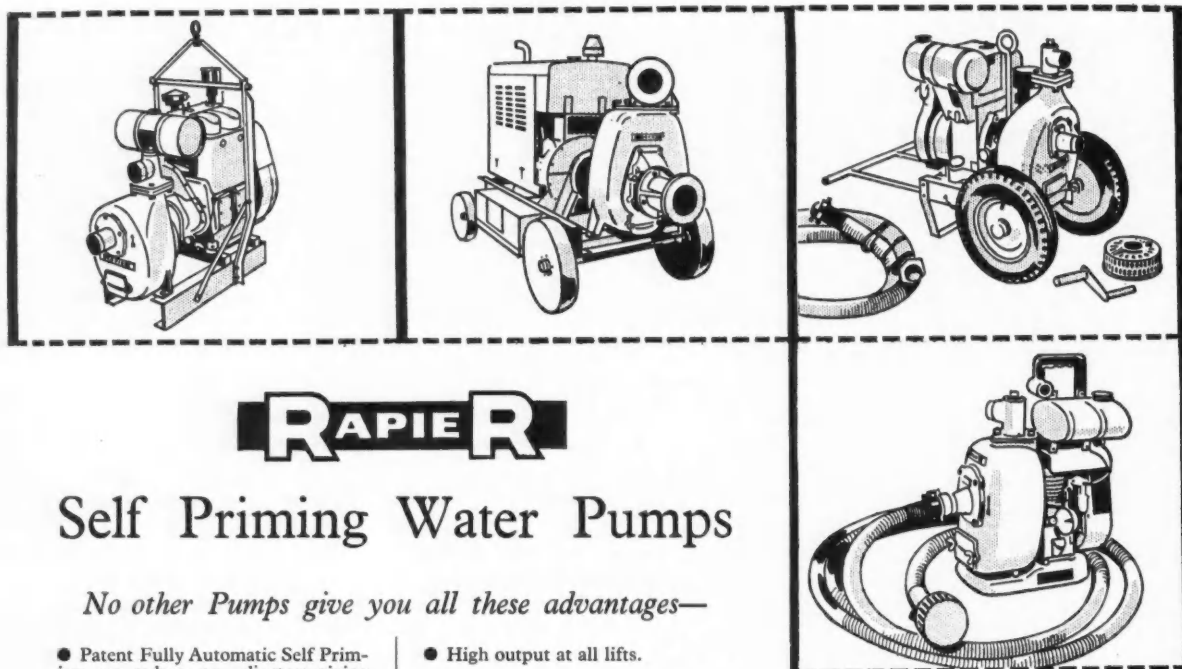
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## Advertisements received too late for Classification

### MIDDLEWICH URBAN DISTRICT COUNCIL.

#### DEMOLITION OF PROPERTY IN NEWTON BANK, MIDDLEWICH.

TENDERS are invited for the DEMOLITION OF EIGHT HOUSES on LAND adjacent to NEWTON BANK, Middlewich.

Copies of the Conditions and Specification and Forms of Tender may be obtained from the Council's Surveyor, D. A. STUBBS, at Victoria Building, Lewin Street, Middlewich, and Tenders, in plain sealed envelopes bearing no mark of the sender, and endorsed "Newton Bank Demolition," are to be received by me the undersigned, not later than First Post on SATURDAY, the 6th MAY, 1961.

The Council does not bind itself to accept either the lowest or any Tender.

ARTHUR GOULDEN,  
Clerk of the Council.

Victoria Building,  
Lewin Street,  
Middlewich, Ches.  
April, 1961.

### SUNBURY-ON-THAMES URBAN DISTRICT COUNCIL.

#### HIGHWAYS ACT, 1959—GOVETT AVENUE (PART).

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Drawings may be inspected at the Offices of the Engineer and Surveyor, from whom Tender documents may be obtained.

Tenders must be returned to the undersigned, in plain sealed envelopes, not later than Noon on 29th APRIL, 1961.

T. L. WATTS,  
Clerk of the Council.

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Tenders, with the Bills of Materials priced in ink, are to be submitted to the undersigned not later than 12 Noon on the 12th MAY, 1961.

The Council does not bind themselves to accept the lowest or any Tender they may receive.

J. STANLEY BROWN,  
Clerk to the Council.

Grove House,  
Pocklington,  
York.  
10th April, 1961.

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**SITE ENGINEER**, aged 25-30, REQUIRED for setting-out and site measurements, etc., for medium-size sewerage scheme in Herts.—Applications in confidence to MACTRAC, LTD., 159 St. Leonards Road, Windsor.

**SURVEYOR** REQUIRED to assist in estimating department dealing mainly with earthmoving. Apply to WILLMENT BROS., LTD., 462 London Road, Isleworth.

**CITY OF WINCHESTER.** For SALE, One 20-ton WEIGHBRIDGE, with platform 18ft. x 8ft., complete with headwork. In working condition.—Apply CITY ENGINEER, Guildhall, Winchester.

### URBAN DISTRICT COUNCIL OF ADWICK-LE-STREET.

#### TENDERS FOR MATERIALS AND THE APPLICATION OF TAR.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS, the APPLICATION OF TAR and WORKS required for the MAINTENANCE of HIGHWAYS during the year ending 31st March, 1962.

Tarred Steel Slag.  
Steel Slag Chippings.  
Refined Tar to Road Board Specification.  
Proprietary Preparations.  
1/2in. Bituminous Slag and Fine Cold Asphalt.  
Slag Filter Media.  
Mechanical Application of Tar or Proprietary Preparations for Surface Dressing.  
Burning-off and Planing to Carriageways.

Forms of Tender may be obtained from E. A. DAUBNEY, Acting Engineer and Surveyor, Council Offices, Adwick-le-Street, near Doncaster. Tenders, on the prescribed form, sealed and endorsed, must be delivered to the Chairman of the Council, Council Offices, Adwick-le-Street, near Doncaster, not later than First Post, MONDAY, 1st May, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

C. R. MARSHALL,  
Clerk to the Council.

Council Offices,  
Adwick-le-Street,  
Near Doncaster.  
10th April, 1961.

### LANDEILO RURAL DISTRICT COUNCIL.

#### COMPREHENSIVE WATER SUPPLY.

##### CONTRACT REF. 69D1.

##### MAINLAYING.

**FIXED-PRICE TENDERS** are invited for the EXCAVATION FOR, SUPPLY, LAYING and JOINTING of approx. six miles of 6in., seven miles of 4in., 5 1/2 miles of 3in., and 1 1/2 mile of 2in. dia. WATER MAINS, together with Specials, Valves, Incidentals, Two Reinforced Concrete Balancing Tanks, and ancillary works.

Tender documents may be obtained from the Council's Consulting Engineers, MESSRS. SANDFORD FAWCETT AND PARTNERS, 53 Victoria Street, London, S.W.1, on payment of a deposit of Five Guineas which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

The Drawings may be examined at the Office of the Engineer and Surveyor to the Council, Council Offices, Landello, Carmes, and at the Offices of the Consulting Engineers.

Sealed Tenders, in plain covers endorsed "Tender for Contract Ref. 69D1—Mainlaying," should reach the undersigned not later than Noon on the 13th MAY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

D. T. M. JONES,  
Clerk of the Council.

R.D.C. Offices,  
Landello, Carmes.

### EAST DEVON WATER BOARD.

#### WILMINGTON RURAL DEVELOPMENT SCHEME.

##### RIDGE CROSS PUMPING STATION.

TENDERS are invited from pump manufacturers for the SUPPLY and ERECTION OF DUPLICATE ELECTRICALLY POWERED PUMPS, with Auxiliary Equipment, for the ABOVE STATION.

The pumps will be operated automatically, and will be required to pump 1,500 gallons per hour against a total head of 190ft.

Full details of the Contract, including the Specification, Drawings and Conditions of Contract, may be obtained from the Chief Engineer to the Board at the undermentioned address, and the completed documents must be returned to the Clerk of the Board not later than First Post on the morning of 1st MAY, 1961.

The documents must be sealed in the envelope provided, which must bear no indication of the person tendering, and the Board do not bind themselves to accept the lowest or any Tender.

D. G. BRUCE,  
Clerk of the Board.

The Laurels,  
46 New Street,  
Honiton,  
Devon.

**EXPERIENCED EXCAVATOR DRIVERS** REQUIRED for 10RB, 19RB and 22RB machines. Good wages paid to efficient men.—Apply: R. G. HORTON (ENGINEERS), LTD., Delph Road, Brierley Hill.

**SITE ENGINEER**, fully experienced wages, etc., REQUIRED for civil engineering contract in Lancashire. Good prospects and permanent position. Written applications, stating full particulars, to Box V.3967, "The Contract Journal."

**EXPERIENCED FITTERS** REQUIRED, capable of major repairs to R.B. excavators, Caterpillar tractors and civil engineering plant. Good wages paid to efficient men.—Apply: R. G. HORTON (ENGINEERS), LTD., Delph Road, Brierley Hill, Staffs.

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Write ESTABLISHMENT OFFICER, Town Hall, St. Marylebone, W.1, for application form, returnable by 1st MAY.

### THURROCK URBAN DISTRICT COUNCIL.

#### ENGINEER AND SURVEYOR'S DEPARTMENT.

##### APPOINTMENT OF TEMPORARY CIVIL ENGINEERING CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary, Miscellaneous Grade VI, £825 per annum (maximum), plus £1 16s. 7d. per week differential payment. Applicants should have considerable experience in the supervision of civil engineering contracts, particularly in the construction of sewers, pumping stations and roads. Appointment terminable by one week's notice on either side.

Applications, stating age, qualifications and experience and quoting three referees, to the CLERK OF THE COUNCIL, Council Offices, Grays, Essex, by 25th APRIL, 1961. Canvassing disqualifies. Relationship with members or senior officers of the Council must be disclosed.

### CHESTER-LE-STREET URBAN DISTRICT COUNCIL.

#### SEWAGE DISPOSAL WORKS—EXTENSIONS.

The above Council invite TENDERS, on a FIXED-PRICE BASIS, for the CONSTRUCTION OF SEWAGE DISPOSAL WORKS, comprising Screening Chamber, Constant Velocity Channels, Sedimentation Tanks, Percolating Filters, Humus Tanks, Effluent Recirculation Pumping Station and Alterations to Existing Tanks and Filters, etc., Complete with Pipework and other appurtenant Works.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. BALFOUR AND SONS, Consulting Engineers, Caledonian Buildings, 145 Pilgrim Street, Newcastle upon Tyne, 1. Engineers for the Work, accompanied by a cheque for £5, made payable to the above Council, not later than 8th MAY, 1961, after which full particulars will be forwarded.

The deposit will be returned on receipt of a bona-fide Tender and on return of all particulars after the Contract is let.

It is essential that the contractor should have had considerable experience in similar works and be prepared to furnish good and approved security for the fulfilment of the Contract.

Tenders, in plain sealed envelopes endorsed "Tender for Extensions to Sewage Disposal Works," must reach the undersigned by a date to be given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

By Order,  
THOS. D. GIBBS,  
Clerk of the Council.

Council Chambers,  
Chester-le-Street,  
Co. Durham,  
14th April, 1961.

### LANDEILO RURAL DISTRICT COUNCIL.

#### WATER SUPPLY.

##### CONTRACT REF. 69D2.

The Council will be inviting Fixed-price TENDERS from selected firms for the CARRYING OUT OF A CONTRACT for the CONSTRUCTION of a RESERVOIR of 450,000 gallons nominal capacity in REINFORCED and PRESTRESSED CONCRETE, together with associated Valves and Pipework, and the Laying and Jointing of approx. 1,000yd. of 3in. dia. Cast-iron Pipes.

Application Forms can be obtained from the Council's Consulting Engineers, SANDFORD FAWCETT AND PARTNERS, 53 Victoria Street, Westminster, London, S.W.1, to whom completed forms should be returned not later than the 28th APRIL, 1961.

D. T. M. JONES,  
Clerk of the Council.

R.D.C. Offices,  
Landello, Carmes.

**GENERAL FOREMAN**, who must be planning time schedule, REQUIRED by expanding and progressive West End contractors for new contracts in London and the Home Counties. Position offers first-class opportunity for men of enthusiasm and ability who are interested in advancement and promotion. The emphasis is on high-class work carried out on time.—Write, stating experience, etc., to Box V.3975, "The Contract Journal."

**A. T. CHOWN AND CO. LTD.** REQUIRE GENERAL FOREMEN for new contracts in the London area. Applicants must be conversant with planning techniques and able to run contracts strictly to programme. The position is progressive, and there is great opportunity for advancement for men of enthusiasm and ability. Salary according to experience. Write, with full particulars, to 1 Cromwell Road, S.W.7.

**PLANT HIRE COMPANY** in Middlesex REQUIRE experienced MAN to control accounts and hiring out of plant. Full details to Box V.3978, "The Contract Journal."

**MANAGER** REQUIRED to take charge of the asphalt and macadam surfacing department, operating from York and covering the three Ridings of Yorkshire and adjoining counties. Pension scheme. Good prospects for further promotion.—Applicants should write, stating age and experience, to the Secretary, NORMAN W. DUNN AND CO., LTD., 1 East Mount Road, York.

**ENGINEER** REQUIRED for road construction and surfacing contracts in East Anglia. Experience in the manufacture and laying of hot asphalt and coated macadam. Permanent position, with superannuation, group life and bonus schemes. Car provided.—Please apply in confidence, with details of experience, age, necessary references, and salary, to General Manager, EAST ANGLIAN ROADSTONE AND TRANSPORT CO., LTD., 66 Bracondale, Norwich.

**SURVEYOR** REQUIRED for London contract, mostly excavation.—Apply to WILLMENT BROS., LTD., 462 London Road, Isleworth.



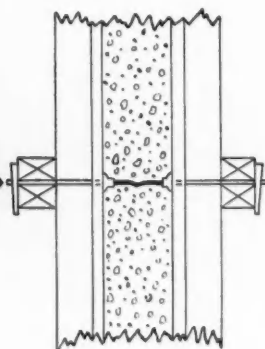
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# THE CONTRACT JOURNAL

INCORPORATING  
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

## THE CONTRACT JOURNAL

Incorporating  
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and  
THE CONTRACTOR  
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### Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

## WILL CONSTRUCTION DEMAND BE RESTRAINED?

"THE fact that from time to time the Government are forced to act to restrain demand is not a contradiction of the general policy of encouraging economic growth." So says the Economic Survey for 1961. It forecasts a further rise in investment this year but issues a warning about the upward pressure on costs and prices.

It seems unlikely that the three year stability in construction costs will be maintained this year having regard to the wage increases granted and the slight easing of the highly competitive trading conditions.

But the main problem that must be worrying the Government in relation to construction is whether the time has come to restrain demand. Mr. Brooke says he cannot step up the housing programme without cutting down on something else. Mr. Marples says the same thing about the road programme. How are the competing claims to be balanced? How is the construction cake to be shared?

At times such as these when the construction industry looks full up the traditional attitude is one of restraint. A backward glance over the past fifteen years reveals a disquieting record of licensing controls, credit squeezes, capital cuts and other forms of restrictions. To be fair, restraints have sometimes been necessary. To be fair, the construction programme has grown. But the plain fact is that whenever an economic crisis has threatened the axe has always been wielded at construction. It is such an easy axe to wield, even in the absence of licensing, because so much work is under direct government control. It is such a tempting axe to wield because its effect is deflationary.

The result has been that with one or two notable exceptions, the dynamic approach has been entirely lacking in construction. Its growth record compares unfavourably with most other industries as also does its productivity record. There has been a tendency to put the blame entirely on the industry. But the government must take its fair share of the responsibility.

Consider for a moment the exceptions. Opencast coal was one of them. Given a firm programme (since cancelled) contractors raised output sharply and held costs down by mechanisation despite having to work deeper seams. Housing was another. Given the drive, the previously "inviolable" ceiling of 200,000 houses per annum vanished overnight and became 300,000.

These two examples show what can be achieved by a dynamic approach in two aspects of the construction programme. What is now required is that the same approach be injected into the construction programme as a whole. Only in that way can the industry escape from the dreary four-year cycle, half accelerator, half brake, which has constituted the all too stagnant pattern since the war. Momentum, once gained, has immediately been sacrificed.

Overloading of the construction industry must obviously be avoided. It causes delays, inefficiencies and inflation of costs. But that is not to say that increases in the programme should not be planned, announced and budgeted for. At times such as these when the volume of work looks as large if not larger than the industry can handle the government, instead of reaching for the axe, should put on its thinking cap and plan dynamically for the long term future.



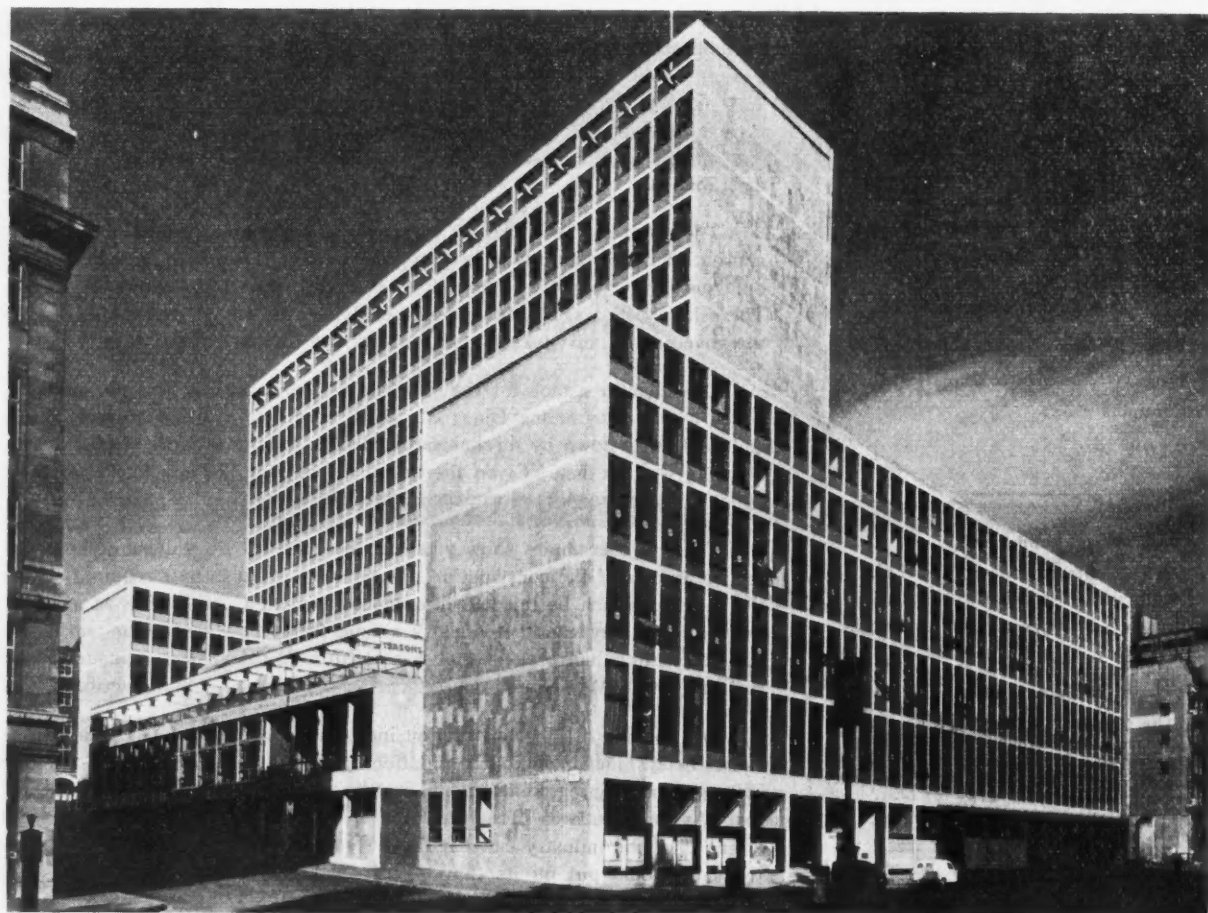


The Stonecutter Street frontage of Fleet Building, showing the long dining hall at ground level

*Promoters:*  
Ministry of Works

*Architect:*  
W. S. Frost, A.R.I.B.A.

*Contractors:*  
Tersons, Ltd.



The building seen from Farringdon Street



## CITY OF LONDON'S NEW 12-STOREY TELECOMMUNICATIONS CENTRE

### Fleet Building Built to 11ft. 5½in. Module

**I**N planning the new 12-storey Fleet Building in Farringdon Street, London, E.C.4, for the G.P.O., the Ministry of Works' architects worked to a module dimension of 11ft. 5½in.

The building is London's new telecommunications centre and the operational requirements dictated the plan of the building, the module of 11ft. 5½in. being chosen to agree with Post Office apparatus lay-out. This module runs in both directions and within each module dimension two window bays have been provided, which has meant the standardisation of dimensions throughout the building. The irregular dimensions of the northern boundary which is occupied by buildings have been taken up with three staircases, which vary in width.

The site is approximately square in shape, having a frontage of 230ft. to Farringdon Street, 250ft. to Stonecutter Street and 230ft. to Shoe Lane. There is a difference of about 16ft. between the levels of Farringdon Street and Shoe Lane, with a gradient of 1 in 16 to Stonecutter Street.

The building has been set back in Stonecutter Street to allow for widening. Shoe Lane has also been widened, and Farringdon Avenue, which crossed the site, has now been closed.

The building is roughly E-shaped on plan. The lower arm along Farringdon Street and the upper arm being five storeys, the centre arm six storeys, with the tower block rising above the main member facing Stonecutter Street.

There is a total of 15 floors, the lower floors being 14ft. 9in. floor to floor and designed to take heavy loading for Post Office equipment. The upper nine floors are 10ft. floor to floor, with lighter office loading. The three lower floors are mainly in basement accommodation.

#### Construction

The town planning authority insisted that a height of 80ft. be adhered to in Farringdon Street and the height of the tower, approximately 165ft. above street level, was dictated by daylighting considerations. An attempt has been made to add interest at street level to Farringdon Street with a number of faience murals and display cases to exhibit Post Office activities. The whole of the Stonecutter Street frontage at street level has been taken up with the dining room. This accommodation, together with its kitchen, was possible only at this level in view of the size required to meet staff demands.

On Shoe Lane the elevations have been set back to accommodate the curve and rise to this frontage. Advantage was taken of the boundary wall to place ventilation grilles behind it. The projecting staircase serves the double purpose of providing a stop to the north elevation and also support to the adjoining party wall.

The superstructure is of reinforced concrete construction throughout, with solid floors in operational areas and hollow pot tile construction for office floors and roofs. Generally, the columns are carried directly on the retaining walls and the foundation slab next to earth. The column spacing externally is 5ft. 8½in., to suit the module construction throughout. Where the construction is hollow tile, a flush soffit appears between the internal spine beam and external columns; in operational areas cross-beams span at 5ft. 8½in. centres.

The building is founded on firm clay at a maximum depth below pavement level in the south-west corner of approximately 50ft. The walls of the basement are of semi-mass concrete construction with a maximum thickness of 9ft. Most of the retaining walls were constructed by the

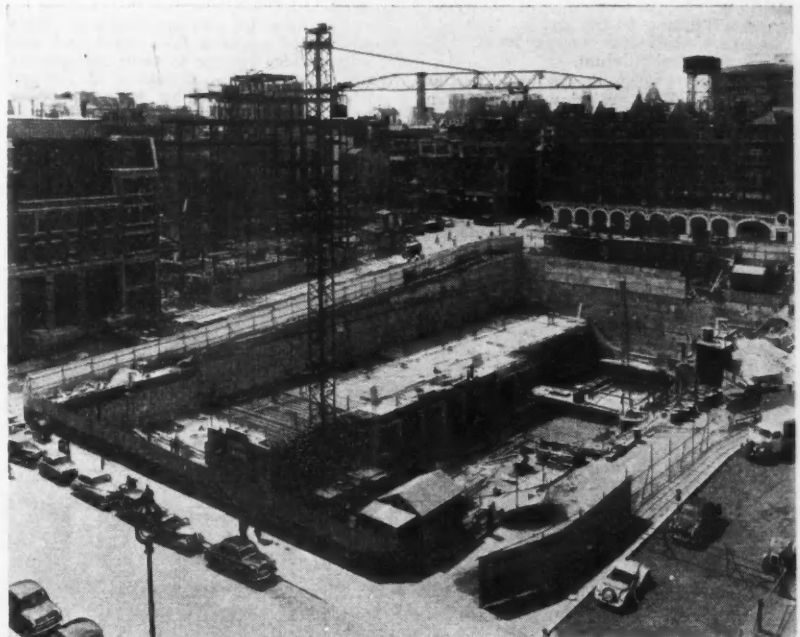
"trench and dumping" method. Little water was encountered during the excavations.

Specified minimum concrete cube strength at 28 days was 4,000lb. for all structural members. The mix was carefully controlled throughout the job to

structural difficulty was experienced with adjoining buildings.

At second floor level an assembly hall rising through two floors has been provided together with two large conference rooms.

Tracking for permanent window clean-

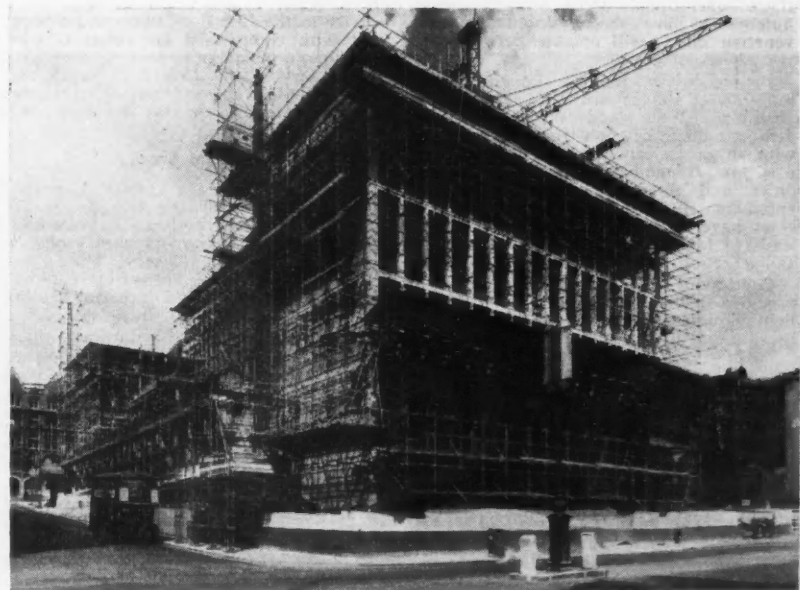


The site in May, 1958

ensure this strength and also economy in materials, particularly cement.

Generally, the columns and beams have been left fair-face and not plastered and throughout the job column and pier sizes were standardised. Bored piles were used on the northern excavations where con-

ing gear has been laid on all roofs. The window cleaning trolleys at the top of the building have been designed to operate at a high level so that the roof space under can be used by the staff. Glass panels form the balustrading to allow those who are seated there to obtain



View taken in June, 1959, showing reinforced concrete framework



an unobstructed view and also get protection from the wind.

In view of the size of the building, adequate yard accommodation for servicing the building had to be given at street level, and garage space allowed for off-street parking. It was necessary to give early occupation of the basement areas to enable Post Office equipment contractors to install the Telex automatic equipment, which came into operation in December, 1960. This meant that this area had to have temporary overhead protection against the weather and also adequate heating arrangements while the remainder of the building proceeded.

#### Finishings

The external stonework is Portland stone with the exception of the end flank walls, which are in-filled with Derbydene stone. Window frames are in teak with the exception of those of the dining room, which are of aluminium.

Windows throughout the building have been standardised. Windows to offices and

it is then pumped into the gravity surface water system.

The main stacks in the two vertical ducts which house the pipework and flush systems are of cast-iron. All the branch wastes—excepting urinal wastes which are lead—are of copper which, with the repetitive nature of the layout of the fittings in mind, made prefabrication of parts simpler. The use of two stacks to each duct taking discharge from alternate floors means that, in the event of one stack being out of commission for maintenance, then no staff have to go more than one floor up or down.

The drainage in the kitchen area has been laid within a void of 1ft. 3in. between the permanent floor slab and the underside of the false floor; this void is watertight to give protection to the Post Office apparatus immediately below.

Drinking water and fire hose reel supply was needed at each floor level and also a supply from storage to serve the sanitary fittings. The water storage is at 5th and 13th floor levels. The mains pressure

of pipes, convectors and radiators totals 64,000 sq. ft. Each main boiler is capable of producing 4 million B.Th.U.'s—one being a stand-by—and the estimated total load is 11 million B.Th.U.'s, of which 750,000 B.Th.U.'s relate to hot water service load.

Of the three domestic hot water calorifiers, one feeds the upper floors, one feeds the lower floors and the third feeds the kitchen.

In the lower five floors forced ventilation is through filters which, in the case of the basement accommodation, are electro-static in order to maintain absolute cleanliness in these areas. In addition the basement accommodation is served by air-cooling plant during summer.

The extract ventilation of the conference rooms and assembly hall is sufficiently effective to withdraw tobacco smoke fumes and a small inlet ventilation plant also serves the assembly hall. Extract ventilation for the kitchen is to roof level.

The supply for lighting and power is brought into the building at high tension through two transformer and two main switch rooms. Distribution to lighting circuits and power points is by means of rising bus-bars and underfloor ducting. Most of the lighting is fluorescent, the fittings for which are attached to the continuous lines of ducting.

There are six high-speed passenger lifts in two groups of three, each with special automatic group control for rapid dispersal of the staff to and from the 15 floors. These lifts function at the rate of 500ft. per minute. The top floor of the tower block is not served by lifts, so that the lift over-run can be accommodated in the roof structure. There is also a goods lift to serve the kitchen, and registries, etc., on the floors above, leading direct to the yard.

#### Costs And Quantities

Tenders were invited in March, 1957, for the construction of the building, on the basis of a programme laid down by the Ministry, in conjunction with the Post Office. The contract was placed in the following May with Tersons, Ltd.

The estimated final cost is £1,883,841; total cubic content, 6,116,670 cu. ft.; cost per cu. ft., 6s. 2d.; gross floor area, 397,370 super. ft.; cost per super. ft. gross, £4 14s. 10d.

Quantities incorporated in the building are as follows:

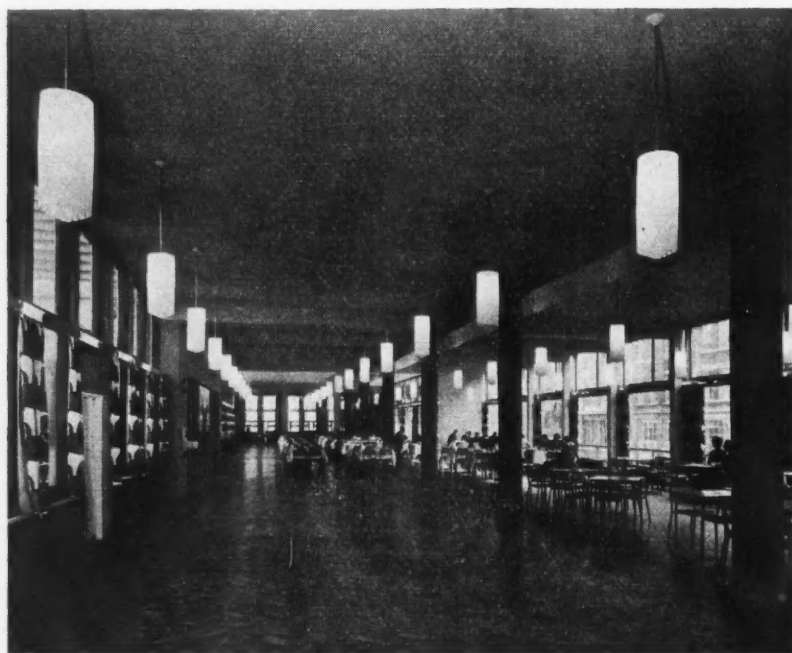
Excavations—82,000 cu. yd.; concrete—34,000 cu. yd.; reinforcement steel—2,565 tons; structural steel—65 tons; shoring and carcassing timber—170 standards; Portland stone—12,536 cu. ft.; Derbydene and Ashburton marble—18,073 super. ft.; granolithic floor paving—4,679 super. yd.; tile floor paving—943 super. yd.; wood block flooring—1,738 super. yd.; wood strip flooring—312 super. yd.; polyvinyl floor covering—1,100 super. yd.; Terradura block floor covering—1,800 super. yd.; linoleum floor covering—22,834 super. yd.; number of windows—1,800; area of glass—124,820 super. ft.; number of doors—1,500; area of decorative surfaces—92,906 super. yd.

#### Consultants

The Ministry of Works officers responsible for the design of Fleet Building were W. S. Frost, A.R.I.B.A., A.M.T.P.I., senior architect, assisted by N. V. A. Crick, A.R.I.B.A. Mechanical and electrical engineering services were carried out in conjunction with the Post Office engineering department by A. M. Palmer, B.Sc., A.M.I.H.V.E., senior engineer, and J. H. Bryant, M.I.H.V.E.

Structural design was by L. R. Creasy, B.Sc.(Eng.), A.M.I.C.E., M.I.Struct.E., superintending structural engineer, and G. H. Stewart, M.I.Struct.E., senior structural engineer in association with Messrs. W. V. Zinn, consulting engineers.

Drainage, plumbing and cold water services were carried out under the supervision of D. D. Lewis, A.M.I.C.E., F.I.P.H.E., A.M.I.Mun.E., senior engineer, and quantity surveying was done by T. L. McSwiney and A. D. Poore, senior quantity surveyors.



The spacious dining hall of the new Fleet Building

those operational areas which require quietness, have been double glazed; venetian blinds will operate between the two sheets of glass.

Because of the modular lay-out of the building, it was possible to standardise partition lay-out and these are fully demountable in dry construction and faced with an easy cleaning plastic finish. The partitions, in one-bay lengths, can be taken down and re-erected by two men in approximately one hour. Electrical services have been accommodated on solid walls to facilitate the quick taking down and erection of demountable partitions.

Continuous ceiling trunking has been provided in the office areas with adaptable lighting units, which can be repositioned to suit various lay-outs.

#### Services

Lavatories and plumbing have been concentrated mainly in two vertical service ducts, which extend throughout the height of the building. The fittings below street level, because of the relatively high surcharge in the Fleet sewer beneath Farringdon Street, have had to be taken through an automatic ejector system. The remainder of the fittings, however, discharge by gravity at all street frontages.

The drainage to the basement garage has been taken through the petrol interceptor to the sub-basement floor level from where

(60lb. p.s.i.) is insufficient to provide a service to the 13th floor tanks and a boost unit with compressed air vessel is used to maintain adequate pressure in the rising mains, serving the 13th floor tanks and drinking water above 5th floor level; and in a separate riser serving fire hose reels at all floor levels.

#### Mechanical Services

The boiler house in the sub-basement is approximately 30ft. in height. It has four Economic type boilers which are fired by modulating oil burners with sequence control operating on 900 secs. The boilers provide high pressure hot water at 290 F. and feed six calorifiers for central heating and three for domestic hot water.

The building is divided into six zones for heating purposes, each zone being on one calorifier with thermostatic control working in conjunction with exterior pilots registering the outside atmosphere. The domestic hot water calorifiers are fed from the main boilers during winter months and from a small oil-fired boiler during the summer, again under thermostatic control. An out-flow heater is fitted in each oil tank connected to the high temperature hot water system, one tank being fitted additionally with an electric thermostat for starting-up periods.

Heating is by low pressure hot water radiators throughout and the surface area



## £5M. HIGH SPEED TEST FACILITY COMPLETED AT BEDFORD

**A** FURTHER major test facility, estimated to cost about £5m., has been added to the Royal Aircraft Establishment at Bedford with the recent opening of a high supersonic speed wind tunnel for the Ministry of Aviation.

The purpose of the tunnel, which is the most powerful in Western Europe, is to provide facilities for advanced research and development work on the performance and design of supersonic aircraft and missiles by testing stationary scale models in air travelling at speeds up to five times the speed of sound or about 3,700 miles per hour.

### General Operation

Air in the closed circuit of the tunnel is compressed by a powerful compressing plant. It is then permitted to expand through a large nozzle in which it is accelerated to supersonic speeds before meeting the model.

The expansion of the air through the nozzle results in such a large drop in temperature when working at the highest speeds that liquefaction of the air and condensation of any moisture contained in it would occur if steps were not taken to prevent this happening. To avoid these difficulties almost all the moisture content is extracted from the air admitted to the tunnel circuit and the air in the circuit is pre-heated up to 150 deg. C. before it expands through the nozzle.

Auxiliary machinery installed for the former purpose compresses air drawn from the atmosphere to a very high pressure and literally squeezes the moisture out of

it. About 30 tons of dry air is stored in cylindrical steel reservoirs at high pressure for use as required, the quantity of air used to charge the tunnel circuit sometimes being as much as five tons. Some of the dry air is also used to seal shaft glands and joints in the tunnel circuit to prevent inward leakage of moist air from the atmosphere at points in the circuit where the internal pressure may be below that of the atmosphere.

The model inside the tunnel can be remotely controlled to simulate the various conditions of flight. Information on the attitude of the model to the air-stream, the forces acting upon it, the air speed, temperature and pressure is transmitted by electrical circuits to automatic recording equipment. By these means the performance of a model over a wide range of conditions can be evaluated in a very short time. The model can also be viewed through a closed circuit television system and a visual display of the air flow pattern in the vicinity of the model is provided by an optical device.

The tunnel is operated by electrical machinery developing a total of more than 93,000-h.p., requiring an input from the electricity supply grid of 75,000-kW.

### Pipework

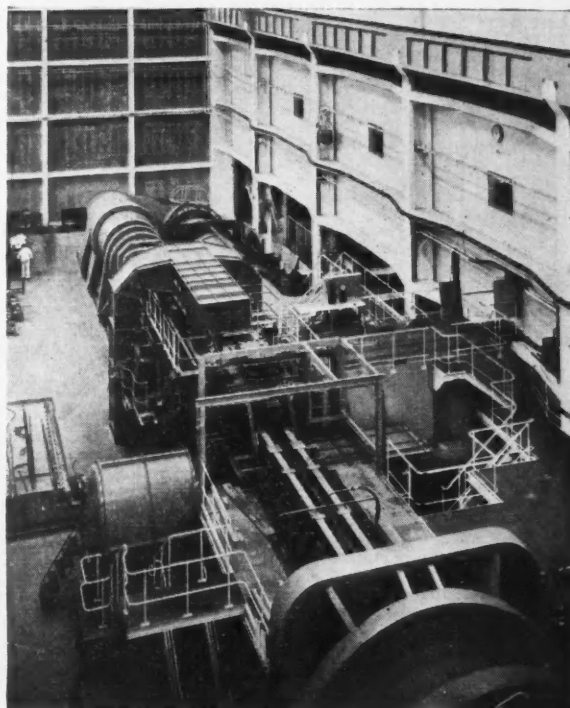
The tunnel air circuit comprises the working section leg, the compressors, the

coolers and a system of pipework and valves necessary to complete the closed circuit and to permit the compressors of each set to be operated either in series or parallel according to the characteristics required.

Different sections of the pipework, which is mainly of 84in., 60in., 48in. and 36in. diameter, are subject to pressure conditions ranging from zero to 180lb./sq. in. abs. and temperatures ranging from ambient to 255 deg. C. at the compressor outlets. All pipework was fabricated from 26/30-ton boiler quality steel plate to B.S.S.14 of  $\frac{1}{2}$ in. and  $\frac{3}{4}$ in. thickness. The total length of pipework in the circuit is approximately 2,000ft. and the total weight about 730 tons.

More than 40 right angle bends are incorporated in the circuit. Each bend is fitted with cascades to reduce turbulence, the design being such that the cascade vanes provide the stiffening required by the elliptical cross-section where they are fitted so that external stiffening rings are unnecessary.

The pipework system is anchored or



Main tunnel hall



General view of office block, working section, control deck and compressor hall



constrained at the connections with the compressors, at one point in the working section leg and at certain other points. In between these points the pipes are supported at the centre line on spherically ended spring loaded struts which allow free movement of the pipework to take up changes in linear dimensions due to temperature changes. Expansion and contraction in the length of the pipes is accommodated by the use of a combination of externally linked bellows joints each of which permits bending in one plane without releasing heavy thrust loads. This arrangement has eliminated the need for a considerable number of heavy concrete foundations which would otherwise have been required to anchor the pipework between expansion joints.

Subject to limitations imposed by transport arrangements and erection considerations the pipework was prefabricated at works in sections, using machine welding methods to a considerable extent. Design and workmanship were required to conform to Lloyd's Rules for Class 2 Welded Pressure Vessels and as an additional continuous check on the quality of welding, 5 per cent. of the welds were radiographed. The percentage was increased to 100 per cent. in the case of welds on certain of the bellows joints where the 5 per cent. check revealed the probability of other defects.

Before despatch to site prefabricated

wood wool slab, which was chosen both for its thermal and sound insulation properties.

The roof is composed of wood wool slab carried on roof purlins spanning 30ft. to 6ft. centres. These purlins are pre-tensioned concrete beams, precast at works, and are the exception to the other precast concrete members, which were formed on site. A double-frame expansion joint is provided at approximately halfway along the length of the building.

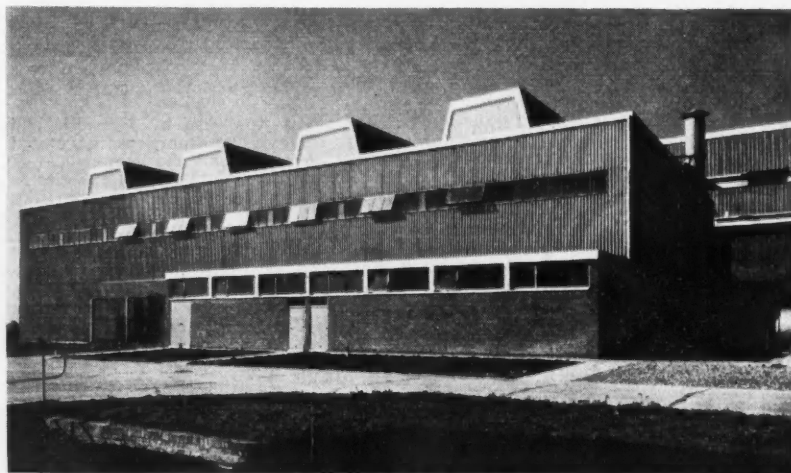
Patent glazing and metal windows have been used for natural lighting purposes.

A feature of the compressor hall is the provision of a 50-ton gantry crane which travels on prestressed concrete crane rail beams. The deflection on these beams, with the maximum load on the crane, is 0.15in.

#### Working Section

A similar type of structure has been used for the working section, which accommodates the tunnel itself. The building is 210ft. long and 52ft. high, and flooring consists of steel platforms with open-mesh decking to let light through to the plant beneath.

Foundations in the working section are about 13ft. at their deepest, due to the need to accommodate a pit beneath the tunnel for removal of the flexible nozzle plates without impairing the strength of the foundations.



Auxiliary plant building

sections were shot blasted internally and externally to remove mill scale and rust. External surfaces of pipes to be erected out of doors were sprayed with aluminium to a coating thickness of 4/1,000in. All other surfaces were given temporary protection against rusting.

After erection and completion of site welding the complete L.P., I.P., and H.P. zones of the pipework were hydraulically tested to 30, 140 and 360lb./sq. in. respectively.

#### Buildings

A number of large structures have been erected to house the tunnel and its equipment, and these consist of a compressor hall, the working section, a control deck, an auxiliary plant building, a workshop and an office block.

The compressor hall, which houses the main compressor sets, is of precast, post-tensioned concrete frame construction, with reinforced concrete columns and side rails. Other buildings, with the exception of the workshop, are of similar construction which enabled the building programme to be met by obviating long waits for steel deliveries.

With a clear span of 48ft., the compressor hall is 46ft. high and 330ft. in length. Cladding on the open, exposed side consists of Kynalock externally, with an internal lining of lin. wood wool slab. Gable ends are clad with panel asbestos sheeting, also lined internally with lin.

As previously stated, large concrete corner anchorages have been eliminated by the use of tied bellows joints acting as hinges in the tunnel. Design requirements in the working section called for the distribution of about 700 tons from the tunnel.

Between the working section and compressor hall is the control deck section, from which the tunnel is operated and the results noted. This section is of load-bearing brickwork carrying a 6ft. 6in. service void for services between the compressor hall, working section and control instrumentation.

A concrete filler joist floor above the service void gives flexibility for variations in service connections. The control rooms and data reduction rooms have a suspended plastic egg-crate type ceiling concealing fluorescent tubes giving diffused general lighting.

The walls of these rooms are covered with perforated Asbestolux on battens for acoustic insulation, and the floor is finished with PVA tiles. This whole control area is air-conditioned.

The auxiliary plant building is also of precast prestressed portal frame construction, externally clad with external corrugated asbestos sheeting, and lined internally with wood wool slab. The roof is also of wood wool slab on precast prestressed concrete purlins.

A working platform at 8ft. level over the whole area consists of a steel frame-

work, carrying open mesh flooring giving light at a lower level to services distribution connecting compressor plant at the working platform level. Windows are of patent glazing.

As it was phased for a later part of the building programme, the workshop was able to be constructed with a steel frame. Cladding is Kynalock, with a plasterboard lining to the walls. The roof is of wood wool slab carried on steel purlins, and natural lighting is provided through patent glazing.

#### Offices and Laboratories

The high supersonic speed wind tunnel has its own block of offices and laboratories, constructed of precast prestressed beams at 5ft. 6in. centres on reinforced concrete posts. A 4in. thick reinforced concrete floor slab spanning 5ft. 6in. carries a wood block floor finish to offices and laboratories.

Window units consist of centre-pivot hung windows, 5ft. 6in. wide, the space between ground and first floor windows being filled with vitreous enamel panels, factory-bonded to ½in. fibreboard backing. Behind the panels the inner skin consists of a structural concrete beam 5½in. thick.

Burgess hot water ceiling heating is used throughout on the ground floor, the first floor being heated by conventional convector radiators. Partitions are demountable units, with a mixture of single and double thickness to give varied sound insulation requirements.

#### Cooling Tower

Heat transferred to cooling water in the air coolers of the main and auxiliary compressor plant and in the cooling systems of the driving motors, compressors and evacuators, is rejected to atmosphere by means of an induced draft type water cooling tower.

The tower is constructed with a reinforced concrete frame and roof over a cooling water pond 275ft. 3in. long by 39ft. 10in. wide by 8ft. 3in. deep which contains 462,000 gallons at the average water depth of 7ft. 6in. Sides and ends are clad with asbestos cement sheets and the tower is divided into seven cells which can be operated as individual cooling units or in any required combination to suit the cooling load and ambient conditions.

The splash packing in each cell is of impregnated timber and extends from 3ft. 6in. to 23ft. above the pond sill level. To prevent loss of water due to entrainment of droplets in the upward current of air a spray eliminator is fitted 7ft. above the top of the packing.

#### Designers and Contractors

Design and construction of the wind tunnel and plant installations were the work of a partnership between Ministry of Works' engineers and architects, Ministry of Aviation scientists and engineers, Lloyd's Register of Shipping, and contractors. Mr. S. G. Page, A.R.I.B.A., senior architect, Ministry of Works, was responsible for the design of the buildings. The consultants for the concrete work were Felix J. Samuely and Partners.

Principal contractors and sub-contractors were as follows: John Laing and Son, Ltd.—buildings and plant foundations; Associated Electrical Industries, Ltd.—main compressors, motors, gears, coolers and control equipment; Horsley Bridge and Thos. Piggott, Ltd.—air circuit pipework; Harland Engineering Co., Ltd.—air circuit rotating plug valves; J. Blakeborough and Sons, Ltd.—air circuit and cooling water gate valves; The General Electric Co., Ltd.—working section leg comprising inlet and outlet sections, adjustable nozzle, No. 1 model support section, calibration section, supersonic diffuser, servo positioning and sensing devices, controls and instrumentation; Constructors John Brown, Ltd.—Nos. 2 and 3 model support sections; Harland and Wolff, Ltd.—H.P. compressors and air drying plant; Vickers Armstrong, Ltd.—H.P. air storage vessels; Reavell and Co., Ltd.—evacuators; Davenport Engineering

(Concluded on page 146)














# THE WORLD'S FOREMOST EXCAVATOR





The  Italian Demonstration Team passing the Colosseum on its way through Rome.

**The best of machines  
demands the  
best of transport**











# A LAWYER CONSIDERS . . .

## A Claim for Fluctuations

IN *Royston U.D.C. v Royston Builders, Ltd.*, reported in *The Estates Gazette* for March 11, 1961, a long-standing dispute on a housing contract was decided in the High Court on a case stated by an arbitrator.

On April 2, 1951, a contract under seal was entered into between the council and the contractors to build 28 houses. The conditions were R.I.B.A. and the question at issue was whether in the circumstances the fluctuation clause, Clause 25A, was applicable to the contract or not.

The events leading to the executing of the contract were as follows. The builders tendered in November, 1950. Their tender stated the contract sum and concluded with these words: "We undertake to satisfy the Council that the prices attached to the several items in the copy of the original bill of quantities which we have priced are those on which our tender is based, and that they bear reasonable relations to each other" and there was a note at the foot, "Tenderers must furnish with their tenders appropriate details in the form given in Appendix 1 to Condition 25A of the General Conditions of Contract." Appendix 1 was sent with the tender and contained the following paragraph: "Variation of the contract sum will only be permitted for materials and goods the value of which is individually an important element in the contract sum and which the contractor is unable to purchase at fixed prices, and the contractor is to confine entries in this appendix to such items." There followed a heading, "Materials and goods, to be purchased directly by the contractor, in respect of which variation of the contract sum is desired in accordance with Condition 25A of General Conditions of Contract." There then followed a list of materials or goods with the basic price set out against each item.

This tender was sent on November 7, and was accepted. The priced bills and tender and Appendix 1, duly filled in, had all been signed by the builders. In February, 1951, the Council wrote to the builders telling them that the Ministry of Health had felt that the price was too high and then asked the builders for a reduction in accordance with a list of additions and deletions to and from the Bills, e.g., copper was substituted for lead. The builders replied as follows: "We have gone through your lists of additions and deductions, as made out by you, in reference to the above, and we are in agreement with all the figures mentioned therein."

The court felt that the effect of this list of additions and deletions was to vary the original priced bills but that it did not result in destroying the original tender, nor by itself could it render the original list of basic prices sent in with the tender ineffective. Nevertheless, if the builder wished to have the benefit of Clause 25A, some revision of that basic price list was necessary in view of these amendments to the work as originally billed. In fact, as it transpired, the builders wanted a great deal more than a different basic price list.

### Oral Negotiations

Just before the contract was sealed a director of the builders had an interview with the council's surveyor. The arbitrator found that the director mentioned increases in cost prices of materials that had occurred since the date of the tender and that the builders would not stand by their fluctuations list and would expect to be paid for increases in cost prices of all materials whether listed in the fluctuations list or not. The surveyor had no authority from the council to accede or dissent from this proposal nor was it mentioned to the council. Nevertheless, the arbitrator found that the builders remained in their

expectation of fluctuations on all materials at the time when the contract was executed. However extraordinary it may seem, the builders took no steps to see that this oral "agreement", if one may so call it, was included in the contract. The court, quite naturally if one may say so, felt that if one party to a proposed contract which is being negotiated wants to make some fairly major alteration it is up to him to ensure that the document, when executed, does in fact record what he wants. The builders here did not do so and they executed the agreement on April 2, 1951, without this vital amendment.

### Builder's Arguments

The builder firstly contended that Clause 25A did not apply at all. This clause provides in sub-clause (2) that for fluctuations on materials a list of materials and their basic prices must be attached to the Bills, by which the court understood that they should be actually, physically, attached. This had not been done in this case. Did this omission, this deviation from the strict letter of the contract, mean that the whole operation of the fluctuation clause on materials had been frustrated? The arbitrator had not been of that opinion; in his view it had been what he termed a clerical error and that the list must be deemed to have been incorporated in the contract. The court confirmed this view. It was quite certain that Clause 25A was applicable to the contract notwithstanding the fact that the list prepared in November, 1950, had not been revised and was never physically attached to the Bills.

If the builder had been successful in his contention that Clause 25A formed no part of the contract in so far as it referred to materials, he proposed to argue that there was a common intention that that should be such a fluctuations clause. The later events were sufficient to show that there had come into existence an agreement dealing with price variation to which both parties gave effect and which was binding. In support of this it was shown that the builders had delivered schedules showing materials bought and giving in one column a basic price and in another the actual price and totalling a claim under this supposed new agreement. Moreover, it was shown that, up to a late stage in the contract, these schedules were paid without question. But the court were unable to spell out of this any such binding new agreement. Against its existence were powerful arguments; such an agreement ought, at that date, to have been under seal; that the acts relied on were the acts of a person who had no authority to bind the council; that there was no evidence at all to show that the council intended to contract on these alleged new terms. The court therefore rejected this argument of the builder.

If, therefore, Clause 25A was part of the contract, and the basic price list was the one included in the executed agreement of April 2, 1951—how could the contractor still argue that the real agreement was to allow him fluctuations on all materials? He tried the following argument.

At the time of the executed agreement there was a collateral agreement entered into derived from the stipulations of the director of the building company that he would not stand by his original list but expected to be paid fluctuations on all his materials. This is a difficult argument to pursue. As Lord Moulton once said in an earlier case in which it was alleged that there was a collateral contract to pay £100 more, "such collateral contracts must, from their very nature, be rare. The effect of a collateral contract . . . would be to increase the consideration of the main contract by £100 and the more

natural and usual way of carrying this out would be by so modifying the main contract and not by executing a concurrent and collateral contract. Such collateral contracts, the sole effect of which is to vary or add to the terms of the principal contract are therefore viewed with suspicion by the law. They must be proved strictly . . . any laxity on these points would enable parties to escape from the full performance of the obligations of contracts unquestionably entered into by them and more especially would have the effect of lessening the authority of written contracts by making it possible to vary them by suggesting the existence of verbal collateral agreements relating to the same subject-matter." The court therefore viewed this contention that there had been a collateral contract on such an important matter with great suspicion and refused to find that any such collateral agreement had been entered into. It was interesting to note in connection with this argument that at the end of 1951 the council asked the builders if they would agree to carry out work involving the construction of 10 more houses; the builders agreed but made no mention of any such collateral agreement and the terms of the contract executed on April 2, 1951, applied.

### Estoppel

The builder had one last shot. He said that in the circumstances the council were estopped from relying on the strict legal position and were bound to give effect to the builder's view that they were to be paid for every material fluctuation and that having paid on that basis on the schedules referred to above they could not go back on that position. In other words the council, by its conduct, had represented that they were willing to pay the increased price on all materials. But the court rejected this argument. It was, the court felt, like the case where a creditor puts in claims in good faith for extras to which he was not entitled and the debtor in equal good faith pays them: did that stop the claims being regarded as not maintainable? Of course not and the mere fact that for most of the contract the council proceeded on an erroneous basis and paid the contractor in accordance with the schedules did not preclude the council from setting up, and relying on, the true contractual position—that only fluctuations in accordance with the list which was part of the executed contract of April 2, 1951, were payable. Judgment was given for the council though the court did, though not as part of the judgment, add that in its view the council would not be acting improperly if it did not pursue its counterclaim for the extra fluctuations it had wrongly paid because, to some extent, the difficulties of the case could be laid at the council's door.

This case illustrates how important it is to get a clear written agreement and that if it is to be altered at any later stage that such alterations should likewise be in writing, be clear and be executed by both parties. While cases like the one described may be a monument to the ingenuity of counsel engaged in them it is really better for the industry that they should never occur.

### I.O.B. ANNUAL GENERAL MEETING

This year's annual general meeting of the Institute of Builders will be held at the Royal Festival Hall, London, on Wednesday, April 19. The principal speaker will be Sir Keith Joseph, Parliamentary Secretary to the Ministry of Housing and Local Government, who will give a talk entitled "The Breakthrough".



## MUNICIPALS' SUMMER SCHOOL AT DURHAM

THIS year's summer school of the Institution of Municipal Engineers (Northern Districts) will be held in Durham Castle from July 20 to 23. Dr. D. G. Christopherson, The Warden of the Durham Colleges, has agreed to welcome students to the school, and the president-elect of the Institution, Mr. J. H. Melville Richards, has been invited to give the inaugural address.

The programme for this year's school has been based on a general theme "Improving Environment", and the three lecture days will be devoted to the topics of "Communications and Traffic", "Urban Planning, Development and Renewal" and "Public Health", respectively. Lectures and Papers have been arranged as follows:

### Thursday, July 20.

"City Traffic—Scientific Method v Subjective Impressions," by Professor W. Fisher Cassie, Ph.D., M.Sc., F.R.S.E., M.I.C.E., M.Inst.H.E., professor of civil engineering, University of Durham.

"The Design of Urban Traffic Routes," by Mr. N. H. Stockley, M.I.Mun.E., M.I.C.E., A.M.T.P.I., deputy city engineer, Liverpool.

"Solving Road and Traffic Problems in the Central Area of Coventry," by Mr. Granville Berry, M.I.Mun.E., M.I.C.E., city engineer and surveyor, Coventry.

### Friday, July 21.

A Paper on urban planning and development (title to be announced later) by Mr. R. T. White, Local Government Commission for England.

"The Engineer and New Towns," by Mr. O. W. Gilmour, M.A., M.A.I. M.I.C.E., chief engineer, Harlow Development Corporation.

"Renewal and Redevelopment in Towns," by Professor J. S. Allen, B.Arch., F.R.I.B.A., P.P.T.P.I., University of Durham, King's College.

"The Developing Urban Landscape," by Mr. Peter Spooner, A.R.I.B.A., A.R.A.I.A., A.I.L.A., senior lecturer in landscape design—Department of Town and Country Planning, University of Durham, King's College.

### Saturday, July 22.

"The Changing Pattern of Public Health," by Dr. W. Mary Markham, B.Sc., M.R.C.S., L.R.C.P., D.P.H., deputy medical officer of health, County Borough of Darlington.

"Clean Rivers from Source to Sea," by Mr. R. J. H. Dyson, B.Sc., F.R.I.C., M.Inst.S.P., chief pollution officer, Northumberland and Tyneside River Board.

"Some Modern Trends in the Disposal of Liquid and Solid Wastes," by Mr. James R. Simpson, B.Sc., S.M., Grad.I.C.E., A.Inst.S.P., M.R.S.H., lecturer in public health engineering, Department of Civil Engineering, University of Durham.

(Concluded from page 144)

Co., Ltd.—cooling towers; Sulzer Bros., Ltd.—cooling water pumps; Stewarts and Lloyds, Ltd.—H.P. air, evacuator and cooling water pipework; Wharton Crane Co., Ltd.—cranes; English Electric Co., Ltd.—33-kV switchgear main substation, 11-kV switchgear variable frequency substation; A. Reyrolle and Co., Ltd.—11-kV switchgear main substation, 11-kV switchgear ring main substation; Johnson and Phillips, Ltd.—25-MVA transformers 33/11-kV; C. A. Parsons, Ltd.—20-MVA transformer 33/11-kV; Ferranti, Ltd.—5-MVA transformer 11/3.3-kV; Crompton Parkinson, Ltd.—electric power and control cables (external); London Electricity Board—control and instrumentation cables (internal); Pye, Ltd.—closed circuit television equipment; Tannoy Products, Ltd.—intercommunication equipment; Newalls Insulation Co., Ltd.—thermal insulation air circuit pipework; Maurice Hill, Ltd.—plant and pipework painting; Gamma Rays, Ltd.—radiography; Lloyd's Register of Shipping—inspection services; G. E. Taylor and Co., Ltd.—electric lighting and small power services; G. N. Haden Sons, Ltd.—heating services.

## BIRMINGHAM'S MAJOR HOUSING SCHEME

ON the old Castle Bromwich Aerodrome site, recently acquired by Birmingham Corporation for £1,750,000, homes for 16,400 people are to be erected on a park-like estate, where over 120 acres will be reserved for open spaces and playing fields.

The estate, which will cover 430 acres, will be developed as a self-contained community with ten residential "units", consisting of multi-storey flats, as well as houses. Some 21 acres have been reserved for schools, including five nursery schools, five primary schools and two secondary schools together with 50 acres of school playing fields. Sites will be provided for shopping centres and for civic, cultural and community buildings.

Altogether, some 4,000 homes will be provided on what is likely to be the last major housing scheme in the City.

Because of the former use as an aerodrome, the site is at present flat and rather bleak and exposed. To overcome this, a comprehensive landscape scheme will be carried out. Mounds will be constructed of spoil from the extensive sewer works required, with considerable tree planting to act as windbreaks and produce an interesting landscape pattern.

## B.C.A.S. COUNCIL AND OFFICE BEARERS

The Council Members of the British Compressed Air Society for the year 1961/62 are:—

Ordinary Council Members: Mr. P. C. Bevis—Broom and Wade Ltd.; Mr. D. A. Hannay—Cooper-Stewart Engineering Co. Ltd.; Mr. E. A. Martin—Padley and Venables Ltd.; Lt.-Col. K. Reavell—Reavell and Co. Ltd.; Mr. R. A. Rust—Joy-Sullivan Ltd.; Col. R. W. W. Taylor—Lang Pneumatic Ltd.; Mr. C. T. Wardman—Air Industrial Developments Ltd.; Mr. J. M. Williams—Holman Bros. Ltd.

Associate Council Members: Mr. I. E. Graham—James Howden and Co. Ltd.; Mr. S. A. Gregory—A.E.I.—Birlec Ltd.

Ex-officio Council Members: Immediate past-president—Mr. E. A. Martin; hon. technical director—Mr. T. C. Hore.

At the first meeting of the new Council, Lt.-Col. K. Reavell (Reavell and Co. Ltd.) was elected president, and Col. R. W. W. Taylor (Lang Pneumatic Ltd.) was elected vice-president of the Society.

Mr. T. C. Hore (Holman Bros. Ltd.), was re-elected hon. technical director, and Mr. H. S. Parsons (Consolidated Pneumatic Tool Co. Ltd.), was re-elected hon. publicity officer.

## £21M. DEVELOPMENT PLAN FOR SNOW HILL STATION

A PLAN to build two hotels, shops, a sports stadium and a heliport above Snow Hill Station, Birmingham, at a cost of about £21 million, is to be submitted to the British Transport Commission by City Wall Properties, Ltd., and Birmingham City Council. The plan has been approved in principle by the city's public works committee.

Included in the outline designs are two hotels, one with flats above, two blocks of offices, a department store, a circular sports stadium and the helicopter stage which would provide a taxi service into the city from Birmingham Airport. Pedestrians would be able to shop on more than one level, and an underground car park is envisaged beneath the station. Gardens would be laid out between the buildings.

If approved, the scheme could start within the next three years, to coincide with the building of the inner ring road. The £21 million would be spent over ten years.

The architect is Mr. G. S. Kelly, of Surman, Kelly and Surman, 35 Calthorpe Road, Birmingham 15.

## LONDON HEATING CONTRACTORS' MEETING

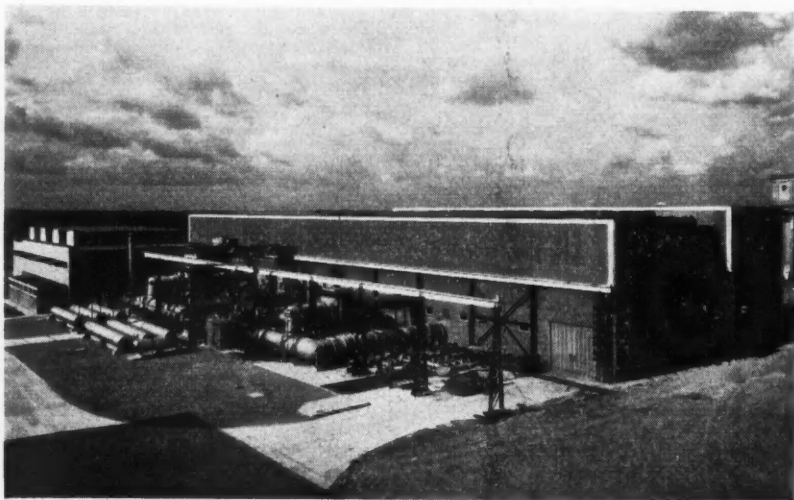
One hundred members of the London and Home Counties Branch of the Association of Heating, Ventilating and Domestic Engineering Employers attended their branch annual general meeting at the Connaught Rooms recently.

After an Address by the Association's president, Mr. Roy Cox, there was a lively discussion on a wide variety of topics including firm price tendering, wage claims and training arrangements.

Members of the branch were warned that their intake of operative apprentices was much too low. The fact that the industry could not have skilled men tomorrow if it did not train them today was a constant theme.

There was, however, an interesting sidelight on the training programme for qualified heating engineers at the industry's National College. Mr. Cox, the president, contended that contractors were undertaking more than their fair share of this training and that consulting engineers, local authorities and other bodies should make more use of the training facilities. At the moment, about 80 per cent. of the students at the National College were placed there by contractors, he said.

Mr. F. Hubbard was re-elected chairman of the branch for a second year of office and Mr. C. Oates was elected vice-chairman. Mr. F. Carter was re-elected branch representative on the Association Council.



Compressor hall and cooling plant



## URBAN SURVIVAL AND TRAFFIC

### This Week's Symposium at Newcastle

**A**N International Traffic Conference, probably the most important to be held in Britain in 1961, opened this week at King's College, Newcastle upon Tyne. Traffic and planning experts from the U.S.A., West Germany, South Africa, Australia, Spain and Great Britain are contributing papers to a Symposium "Urban Survival and Traffic" which was opened by Mr. A. S. Hamilton, president of the Institution of Municipal Engineers and Borough Engineer of Blackpool.

Speaking at the opening Mr. WILFRID ANDREWS, chairman of the Roads Campaign Council—one of the sponsors of the Symposium—said: "We are appalled at the confusion, indecision and lack of planning that confronts the observer of the scenes of gigantic congestion that are choking the life out of our cities."

"Instead of planning for 1980, like cities all over the western world, we are limiting our horizons to unrealistic targets which already are known to be inadequate. Another disturbing feature of the urban problem is the apparent lack of co-operation between the professions whose duty it is to provoke a dovetailed plan that will end this curse of our times—traffic congestion."

"We firmly believe that the situation today is fraught with failure unless there is unanimity fundamental to success among the experts," he said.

The Symposium, which will last until tomorrow, April 14, when a summary of conclusions common to all the professions attending will be framed, is also sponsored by the Departments of Architecture, Town and Country Planning and Civil Engineering, of King's College, University of Durham.

Attended by over 120 delegates from Government Ministries, local government and the professions concerned with urban planning and traffic, the aim of the Symposium is to ask: Can Your community Survive? And to provoke urban planning suitable for use by the next generation in the year 2000.

The first-ever British conference of its kind, the Symposium seeks to reconcile the often differing interests of architects, town planners and engineers to produce master plans for British Cities accommodating the needs of traffic into mass city redevelopment.

#### Learning to Live With the Car

"The motor car is necessary—a necessary evil, if you please—but a thing to be lived with, not repressed. Without transportation, and efficient transportation, the society of this century does not exist."

This was stated at the Symposium when a Paper by DOCTOR J. D. CARROLL, JR., director of the Chicago Area Transportation Study, was read.

"No one likes to live on a busy, heavily trafficked street," he said, "but neither does anyone like living next to railway tracks or the runways of a jet airport. These are necessary aspects of urban life."

The major feature of Dr. Carroll's Paper was a strong plea for co-operative planning by all the professions—architects, town planners and civil engineers—to provide a joint master plan to keep cities abreast of the present-day requirements of the citizens.



DR. J. D. CARROLL

"When public taste is clear to condemn and berate such taste is not the prerogative of the professional planner. The form of cities must reflect the functions, aspirations and preferences of the inhabitants."

"City congestion and the car could be eliminated by prohibiting travel or by taxing the car out of existence. This is just a treatment for symptoms. Instead it is far wiser to organise highways so that congestion is overcome by separating heavy traffic from those areas where people live," Dr. Carroll's Paper said.

#### When Property Booms

City motorways plus off-street parking facilities can result in property values doubling in central city areas. This was stated by an American traffic expert, PROF. D. K. BLYTHE, of Kentucky University.

Quoting examples from Detroit (pop. three million), where urban motorways fit for the forecast traffic need of 1980 are being built, Prof. Blythe said land was worth from \$200 (£71 10s.) to \$300 (£107 5s.) a foot in the central area in 1954. By 1960, with expressways being built, the same land was worth \$375 (£134) to \$650 (£232 7s. 6d.) a foot.

"With the construction of expressways which make access to the city centre fast and safe, private capital is building office and residential buildings in the heart of Detroit, Cincinnati and Louisville. As a result, land values are increasing instead of falling. Shopping centres with sufficient free parking are well established and represent a new way of urban life," he said.

"Everyone concerned must adjust to the changes," Prof. Blythe added, "if the city is to remain healthy."

He declared that city centres have an essential part to play in the community life as the scene of commerce, government, cultural and social recreations. But he added:

"People must feel that they have ready access and parking or they will seek these facilities in other places."

Highlighting the need for co-operative replanning of cities by each and every agency and authority concerned with movement, commercial progress and improved living standards, Professor Blythe said that city motorways could often spur extensive and necessary redevelopment of poorer areas.

Prof. Blythe quoted the example of Philadelphia to show that public transport still has an important role to play in cities where extensive multi-million dollar road-building schemes are being carried out.

"Philadelphia found it more economical to subsidise some rail transportation for fast, comfortable passenger service, than to build expressways," he said, adding that the subsidy cost £11 10s. per head of the commuters per year compared to £53 10s. per commuter for an urban motorway.

"At the same time," Prof. Blythe declared, "The city has planned 100 miles of expressway and started their construction."

#### Picture of Sordid Confusion

MR. COLIN BUCHANAN, urban roads planning adviser to the Minister of Transport, described London's crush-hour traffic as a "picture of sordid confusion, quite terrifying" when he addressed the Symposium.

Expressing his personal views and not

those of the Ministry, Mr. Buchanan added: "These sort of conditions are brewing up everywhere all over big, built-up areas."

He gave a graphic precis of London's traffic tangle as seen from the new 10-storey Ministry building in Southwark Street, South London. "All day long a torrent of traffic with many heavy vehicles pours along the road," he said. "The noise is tremendous and I doubt whether there is anyone in any office facing the road who is free from discomfort."



C. D. BUCHANAN

"Even at the back of the building on the third floor I cannot have the windows open without being seriously inconvenienced by the noise. At five o'clock a most interesting situation develops. The huge office, and others in the vicinity, disgorges its occupants. . . . The narrow streets become rat-runs as hundreds scurry along on their homeward journeys."

He added: "At the same time private cars are unleashed and commercial vehicles come hurrying home to factories and warehouses. Every minor street seems to be in turmoil. Vehicles are everywhere. I am one of the rats who make this journey on foot and I can tell you that I regard the crossing of every street as a potential death trap. Conditions on dark, wet nights are terrible."

Mr. Buchanan, qualified as an architect, civil engineer and town planner, summarised his answer to Britain's urban traffic tragedy in two words: "Traffic architecture."

"Sooner or later people will demand towns that cater properly for what has probably been the most fantastically successful invention in history and they will be prepared to pay for it," he said. "A social revolution has been taking place before our very eyes, but, by some mischance, it has remained virtually undocumented."

"Motor traffic, for all its utility, is playing havoc with the basic civilised values of our towns and threatening the continuance of our whole tradition of urban living. The apparently complex movements one observes in the streets are, virtually without exception, described by vehicles in search of buildings."

"It is ludicrous to keep the planning of roads and buildings in separate compartments. You might as well hand over the rooms of a house to one designer and the passages and staircases to another."

"This new means of getting around involving the use of a fast-moving, noisy, smelly and (potentially) dangerous vehicle has put the traditional arrangements of streets and buildings completely out of date. New arrangements are needed if we want to use this machine to the best advantage. It is not a matter of a few new roads and more car parks. It is a matter of a new environment and this means reconstruction on a big scale."

Mr. Buchanan said none knew the shape the new environments should take because basic studies are still lacking. He added: "Large areas of most towns will be coming up for renewal in the ordinary course of events and if we can re-shape these areas comprehensively the opportunities will be considerable. The real challenge is to combine reasonable exploitation of the motor vehicle while retaining towns broadly in the compact tradition."

(Concluded on next page)



## £4-£5M. L.C.C. HOUSING SCHEME

### Deptford Site to be Redeveloped

THREE 24-storey towers are included in a £4-£5 million scheme by the L.C.C. for the redevelopment of a 45 acre site in Deptford, extending from the Thames to Deptford Park.

The scheme will break through the continuous barrier of industry and warehouses and will provide the borough with its first public access to the Thames.

The whole of the river front is to be laid out as public open space with a general quayside character, that is mainly paved, with robust river walls, bollards, tar and whitewash. It will incorporate the existing river gates and stairs, the oldest warehouses, which it is hoped can be converted for dwellings or communal services, and an existing walled garden where it is planned to have a tea room. The remainder of the public open space, amounting to some 12½ acres, will stretch back along the river from the south of the site and will be laid out as general grassed areas with trees and playing pitches.

#### Roads

Adequate roads to serve the sports field and the car park, the new local shopping centre and the tenants' garages are proposed including eventually a new road bridge over the Surrey Canal. A measure of segregation of wheeled traffic from pedestrians is planned by the provision of a two-level system of circulation; vehicles on the ground and pedestrians on the elevated walk-way.

The pedestrian way would begin in Deptford Park with ramps up to a bridge over Evelyn Street, continuing as a raised walk-way adjoining the school, over the Surrey Canal, past the first tower block, over Grove Street and into the shopping centre, which will be at walk-way level with service yards and garages below. From here the walk-way will split, in one direction leading to the main sports field and in the other continuing to the group of squares near the river front. The largest of these, containing many fine existing trees, is bounded on one side by a terrace of Admiralty Georgian houses which will be retained.

It is intended to provide housing in three main types of block. The three 24-storey towers are each sited to mark a

significant point in the plan—the entry to the main development, the shopping centre and the quayside. The dwellings in these towers will be "split-level" flats of a new type which are at present being developed in the Housing Division of the L.C.C. Architect's Department.

The dwelling units will interlock vertically in a way which could be likened in section to a pair of open scissors with living rooms for handles, bedrooms for blades and bathrooms at the pivot. Tenants will thus go either upstairs or (in alternate dwellings) downstairs to their bedrooms, the bathrooms being at the intermediate level. The same type of unit, but capable of increased size to give more bedrooms, will also be used in the second type of building in the form of an eight-storey "City Wall" running through the length of the site to provide continuity and a link from park to river and a horizontal contrast to the tower blocks. The third type of building will be three-storey flats, colonnaded where near the river-front to afford a visual link into the site.

About 1,300 new homes will be provided in all, the density of the housing development being around 140 persons to the acre. To cater for the greater number of children living in the area, Deptford Park Primary School will be enlarged. An old people's home is also proposed.

The tower blocks will be heated by the new system of central heating having boiler houses at roof level which is now being developed by the L.C.C. The remainder of the dwellings will be heated by solid fuel; the grates will be suitable for the smokeless type. The intention is to provide a minimum of 50 per cent. garaging and parking space, the majority of the garages being placed under the 8-storey blocks.

#### 1962 Start

It is expected that work will begin in 1962. Parallel groups in the Housing Division of the L.C.C.'s Architect's Department are working closely together on the development of the total layout and overall design of the new housing types, i.e., the 8-storey "scissor" block and the tower block.

These groups are working under the direction of Kenneth J. Campbell, principal

housing architect, Jack Whittle assistant housing architect, and E. E. Hollamby, assistant senior architect.

Chief Officers of the L.C.C. responsible for the scheme are: architect to the council, Hubert Bennett, F.R.I.B.A.; deputy architect, F. G. West, F.R.I.B.A.; chief engineer, J. Rawlinson, C.B.E.; valuer, William Webb, F.R.I.C.S.; director of housing, R. J. Allerton, F.R.I.C.S.; and, chief officer of the parks department, L. Huddart, F.I.L.A.

### LUTON AIRFIELD LIGHTING INSTALLATION

A further stage in the development of Luton Municipal Airport has been reached with the completion of a new airfield lighting system for Luton Borough Council.

The lighting installation comprises high intensity runway and threshold lights, high and low intensity approach lights, taxiway lights, an illuminated wind sock, identification beacon and apron floodlights, together with the necessary transformers, switchgear, control equipment and cable.

Included also is a visual glide path indicator installation. Luton is the first airport to be equipped with a full V.G.P.I. system using the new G.E.C. ZA.707 Units and one of the first to have this advanced landing aid.

The lighting system was supplied by The General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, and installed by C. Maurice Contractors, Ltd., Bishop's Stortford, Herts., under the direction of Luton's borough engineer, Mr. F. Oliver, A.M.I.C.E. The cost is estimated at £35,000.

### GEOPHYSICAL SURVEY WORK AT EDINBURGH

Edinburgh City Council have arranged for geophysical survey work to be undertaken at Ferniehill and Hyvots Bank prior to their development of these sites for housing.

This is the first time the Council has undertaken such site investigation which is to be carried out for them by Drilling and Prospecting International Ltd., of Warwick.

An area of approximately 65 acres is involved and the Resistivity method of investigation is being used.

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"Congestion in our city centres is not a new phenomenon. In 1890 we find a Report on London calling attention to the extreme congestion at Hyde Park Corner and recommending that urgent steps be taken to redesign the intersection." This was stated by Mr. J. T. DUFF, of the Ministry of Transport.

"Congestion was confined mainly to larger cities; today it is characteristic of every town, large or small, and covers all the central areas," Mr. Duff said adding that the average speed in London was 10 m.p.h. He gave these figures for other cities: Edinburgh, 13 m.p.h.; Glasgow, 18 m.p.h.; Newcastle, 9 m.p.h.; Stafford, 14 m.p.h.; Stamford, 14 m.p.h. and Worcester, 12 m.p.h.

Urban travel had increased by 33 per cent. in the last three years, the speaker said, compared with 31 per cent. in rural areas.

"Hyde Park Corner, considered to be working to capacity in 1935, carried 12 per cent. more traffic in 1958," Mr. Duff stated. Among the reasons he gave for this were "better performance of vehicles and the great skill of drivers; the acceptance by drivers of slower speeds and shorter headways."

He said waiting restrictions, one-way streets, prohibited turning movements,

improved signal control and some staggering of working hours had helped to increase street capacity.

"Further increases are still possible but, in the absence of physical improvements there is a limit to what these measures can achieve," he added.

Mr. Duff said: "It is customary nowadays to predict that in a few years traffic in our cities will be at a standstill. This has confidently been predicted for London for the past 10 years but, except on special occasions, it has yet to happen.

"As there is a limit to the capacity of existing streets so there is a limit to the ordinary individual's tolerance to delay. When the delay becomes intolerable he takes action by seeking employment elsewhere, by not making his journeys to the centre for recreation, shopping and so on.

"In turn, industry, commerce and shops are forced eventually to follow the individual.

"The result, if no measures are taken to deal with the situation, is not standstill in traffic but change in the character of the city and in the cultural life of its people."

Referring to traffic engineering methods like tidal traffic and linked traffic signals, Mr. Duff said accurate traffic forecasts were essential and added that urban car populations would increase by about five per cent. a year. Urban motorways should

have the same widths as rural motorways (12ft. per lane) but they could be narrower because speeds would be less, he said.

#### Durham's Road and Parking Plan

Durham played host yesterday to the delegates and contributors to the Symposium. The purpose of the study tour was to view Durham's £3.75 million roadworks plan plus kindred development.

County council officials are currently preparing the comprehensive development area map for Durham in co-operation with the city council. The plan is expected to be ready by the end of this year for Ministerial approval.

The city's roads programme has been given top priority in the county council's four-year plan and city officials hope that the Minister of Transport will include their projects in his three-year cycle.

Major features of Durham's road plans include an underpass at Claypath and two new bridges over the River Wear. The new bridges are the one forming the Claypath underpass and a footbridge.

Redevelopment at Millburngate will include a two-storey underground parking garage near a projected shopping area. Other parking areas will be on ground level. This scheme has been approved by the Royal Fine Art Commission who have also endorsed the new River Wear bridges designs.



## POST-TENSIONED SHELL ROOF ON NORWICH SWIMMING POOL

**T**HE hall of a new covered swimming pool recently completed for Norwich City Council is in nine bays, 18ft. across and 82ft. long, of shell construction. Only 2½in. thickness of concrete is used for most of the width of each shell, the shells being post-tensioned with a total loading of about 2,000 tons.

Critical conditions encountered in swimming pool construction, where the air is heavily charged with vapour and chemicals, were kept in mind throughout the planning and construction of the building. To reduce condensation, the windows are double-glazed and the roof is lined externally with cork slabs and sprayed internally with asbestos fibre.

The building is designed to accommodate a swimming pool with seating for spectators, a slipper bath annexe and public lavatories. There is a paved car park for about 80 cars as well as a covered cycle shelter.

The swimming pool is 110ft. long and 42ft. wide and there are six racing lanes for competitive swimming. Three lengths of the pool are equal to 100 metres. The pool varies in depth from 3ft. to 12ft. 6in. at the deep end where there are two spring boards and a fixed 5-metre platform.

Seats for 364 are provided in the spectators' gallery. For gala and exhibition events the number can be increased to 500 by adding chairs.

The building is entered under a free-standing canopy where at night-time a large number of special reflector type lamps recessed into the canopy will illuminate the entrance.

Visitors, while in the entrance hall will see the paybox where tickets are available for bathers, slipper baths and spectators. On the left-hand side are the entrances to the men's and women's slipper baths. To the front is the staircase to the refreshment balcony and spectators' gallery. To the right on either side of the paybox are the entrances to the men's and women's changing rooms. The bather will collect a basket and after using one of the 35 cubicles provided for men and women will pass the basket over a counter for safe keeping.

Passing down the corridor between the cubicles the bather will step into the foot-bath and through a shower and enter the pool hall. Each changing room is equipped with a fresh water shower and usual lavatory accommodation.

Administrative and staff rooms are

and the walls varying in thickness from 1ft. 10in. at the base at the deep end, to 8in. at the top.

As a result of a site investigation the column bases and the pool wall were designed for a maximum bearing pressure of two tons per sq. ft., and because the

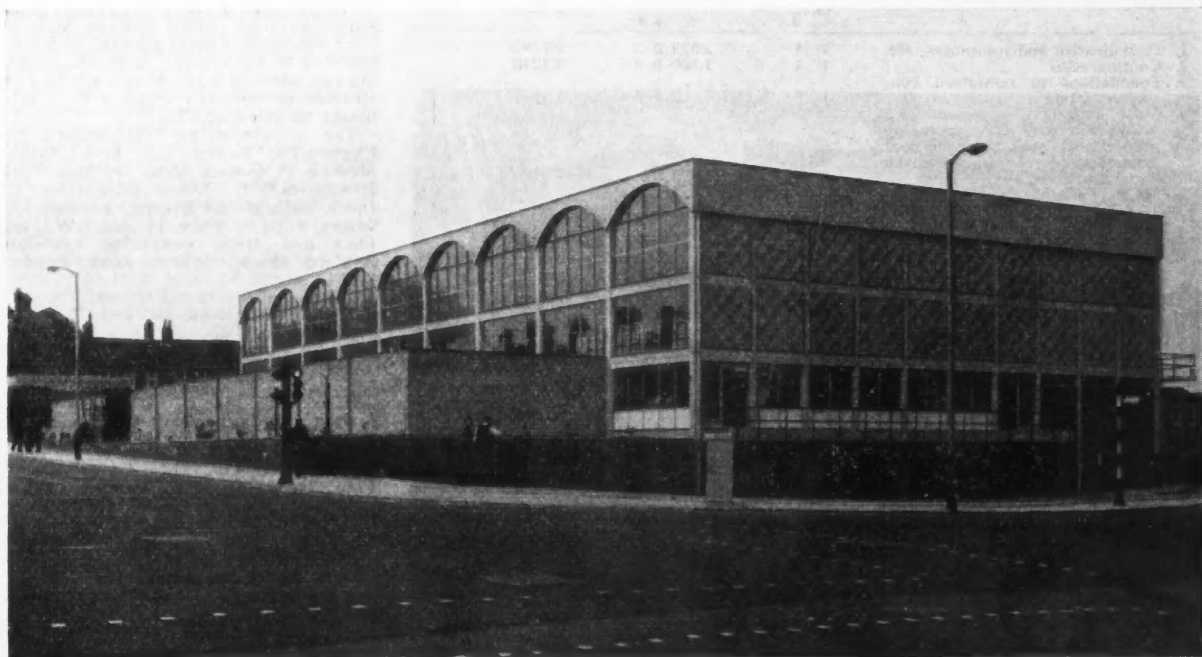


An interior view

served by a corridor off the entrance hall. This corridor has a glass panelled screen overlooking the shallow end of the pool. On the end of the suite of administration rooms and facing the entrance hall is a wall faced in Hornton stone.

The pool has been constructed in reinforced concrete with a floor 12in. thick

shear strength of the chalk subsoil was negligible a 4in. thick layer of consolidated gravel was used between the concrete base and the formation to develop the necessary friction and prevent the concrete sliding on the formation. Moreover, as an additional precaution against sliding, part of the pool floor was designed as a tie



The new swimming baths



beam connecting the opposite sides of the wall.

The pool was isolated from the surrounding structure to prevent forces being transferred from one to the other.

Considerable care was taken in the curing of the concrete. Immediately the formwork was struck, the inside face was sprayed with Concure, the outside face painted with bituminous paint, and the pool was filled as soon as possible.

Prior to tiling, all the walls were brushed and washed thoroughly with detergent and an application of Plaskey was made to form a key for the mortar backing to the faience tiles.

#### Filtration and Treatment Plant

The total capacity of the pool is 204,000 gallons. Five 8ft. diameter air scoured pressure filters are provided with three Worthington Simpson monoblock pumps each capable of delivering 27,240 gallons per hour. Normally, two of these pumps are used for the water circulation to give a four-hour turnover period. However, the design allows for the occasional use of all three pumps together to give a turnover of 3½ hours.

Circulating water is fed through 11 3in. diameter inlets each controlled by a sluice valve. Seven inlets are at the shallow end while there are two on each side wall to boost the chlorine residual at the deep end.

The chlorinator has a capacity of injecting 6lb. of chlorine gas per hour and has automatic changeover when one bank of gas cylinders is empty. Soda is injected by an electrically driven diaphragm pump automatically controlled by the chlorinator while alum is injected by a similar pump under manual control.

#### Lighting

Owing to the 2in. thickness of the roof it was impossible to install lighting within the roof in the conventional manner. When considering the lighting alternatives for the main pool area, the question of glare remained predominant. Care had to be taken to avoid any glare to spectators on the spectators' gallery, restaurant area and to swimmers. The image of light source on the water was also to be avoided.

All lighting for the main pool area is fixed to the vertical reinforced columns. The main lighting consists of an indirect

lighting scheme of 34,500-W floodlight projector fittings installed at very high level. Each fitting has been aligned very carefully onto a certain area of the roof, the light of which will then be reflected to floor level.

Also installed below the floodlight fittings on the spectators' gallery side are 36 150-W floodlamps which project downwards and fluorescent lighting behind a metal pelmet installed around most of the pool to provide a pleasant decorative contrast to the general lighting.

#### Diving Arrangements

A reinforced concrete 5-metre diving platform, 18ft. long, 6ft. 6in. wide and on a single column, 15in. by 21in., is provided. Floodlights are fixed on the underside of this platform and there is an arrangement to spray chlorinated water on to the pool to agitate the surface of the water during special diving events.

A fibreglass springboard is fitted to a similar platform at the 3-metre level and there is a springboard at 1 meter high, fixed to the pool surround.

#### Designers and Contractors

The pool was designed by the city architect, David Percival, B.A., A.R.I.B.A., M.T.P.I., with the city engineer, H. C. Rowley, M.I.C.E., M.I.Mun.E., acting as consultant for the foundations, pool structure, diving platforms and plant. The consultant engineer for the superstructure was H. G. Cousins, B.Sc., M.I.C.E., M.I.Struct.E.

T. Gill and Son (Norwich), Ltd., were the general contractors.

#### HOVERINGHAM GRAVELS' FURTHER ACQUISITIONS

Mr. Harold Needler, chairman of Hoveringham Gravels Ltd., announces the recent purchase of two further companies for £400,000 each. One is Wyre Gravel Ltd., operating on the line of the proposed new M.6. Motorway north of Preston which will serve the Lancashire market. The other is Lound Aggregates, operating near Retford, which supplies Sheffield and the West Riding. These two purchases comprise over 700 acres of gravel boring land.

#### A.T.V. STUDIOS AT BOREHAM WOOD

##### Progress on £4m. Scheme

THE first pair of studios to be built under A.T.V.'s £4 million development scheme at Boreham Wood, Herts., was handed over recently by the contractors, Sir Robert McAlpine and Sons, Ltd.

Started in December 1959, the contract involves the provision of nine buildings with a total space of 6,164,000 cu. ft. There will be two pairs of studios—conversions of old buildings—giving a floor area of nearly 32,000 sq. ft.

A three-storey technical facilities block has also been built, together with restaurant to seat 500, a three-storey studio facilities building and a single-storey steel-framed building with a 90ft. portal span. This last building measures 450ft. by 91ft. and houses a fleet of scenery vans and outside broadcast units.

An existing structure has been converted to house four boilers and ancillary plant and a two-storey block has also been converted to provide 36 dressing rooms, wardrobe stores and allied departments.

Work is now about to start on a seven-storey administration and rehearsal room block and Economic Foundations, Ltd., have begun excavations for about 100 cylindrical piles, which will have diameters between 3ft. and 4ft. 6in. with bases belled out up to 9ft. in diameter. The piles will be sunk to a depth of 40ft.

A peak labour force of 500 has been employed on the contract, and materials used to date have included 1,500,000 bricks, 4,000 tons of cement, 1,500 tons of structural steel, 400 tons of reinforcement, two miles of drain pipes and 40,000 cu. yd. of excavation.

The architects for the scheme are Stone, Toms and Partners, the consulting engineer is Robert D. Ward and the heating and ventilating engineers are G. H. Buckle and Partners.

#### JUNE TENDERS FOR £1M. BIRMINGHAM SPORTS CENTRE

Birmingham University will invite tenders in June for the construction of a new physical education and sports centre at Edgbaston, to cost about £550,000. Work is expected to commence in September.

An unusual feature of the project is the swimming pool, which will be built on stilts above an atrium forming the main entrance to the centre. Gymnasiums, teaching and administrative blocks will be constructed on terraced levels with a total height variation of 35ft.

The architects for the scheme are Chamberlin, Powell and Bon, Avenue Studios, 15 Sydney Mews, Fulham Road, London S.W.3. Other consultants are Davis, Belfield and Everest, quantity surveyors, 9 Ashley Place, London S.W.1, and Flint and Neill, consulting engineers, Ashford House, Wilton Road, London, S.W.1.

#### Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. Eric White, a director of James Longley and Co., Ltd., Crawley, since 1940. He was for many years chairman of the research committee of the Southern Counties Federation and represented the N.F.B.T.E. in their liaison with the Building Research Station at Watford and also on the British Standards Institution.

Mr. George Moncur, who retired in 1959 after 23 years as borough engineer and surveyor of Burton.

Mr. George Lee, M.I.C.E., aged 70, former county engineer of Galway, Eire.

#### TENDER COST ANALYSIS

Element	Cost per sq. ft. s. d.	Total Cost £ s. d.	% of Cost of Pool	% of Total Cost
1. Preliminaries and insurances, etc.	3 3	3,605 0 0	2.7392	
2. Contingencies	1 4	1,500 0 0	1.1238	
3. Foundations to reinforced concrete frame	1 7	1,762 0 0	1.3345	
4. Main building foundations and work up to D.P.C., including floor slab but exclusive of foundation to frame given above	5 4½	5,999 0 0	4.5479	
5. Main building above D.P.C., exclusive of frame and roof, but inclusive of all finishes to frame and roof	34 4	38,153 0 0	28.9376	
6. Reinforced concrete structure and shell roof (excluding felt covering and insulation and finishes)	14 10	16,466 0 0	12.5022	
7. Reinforced concrete pool, including barrier rails and rails to steps, etc., and sub-soil drainage and diving platforms and equipment	11 0	12,215 0 0	9.2713	
8. Reinforced concrete chimney	8	733 0 0	.5619	
9. Reinforced concrete fuel tank reservoir	3½	348 0 0	.2634	
10. Faience tiling to pool	4 4	4,825 0 0	3.6523	
11. Filtration plant	8 7½	9,600 0 0	7.2871	
12. Heating, hot water and ventilation	15 5½	17,189 0 0	13.0290	
13. Electrical installation	5 2½	5,802 0 0	4.3898	
14. Drainage	4 1	4,535 0 0	3.4416	
15. Cycle shelter	4½	420 0 0	.3161	
16. Site works	7 10	8,672 0 0	6.6023	
Total per sq. ft. floor area swimming pool	118 7½	131,824 0 0	100.0000	93.25
17. Slipper baths		9,542 0 0	—	6.75
Total—swimming pool and slipper baths		£141,366 0 0	100.0000	100.00



## WORK BEGINS ON WORLD'S LARGEST ATOMIC POWER STATION

**W**ork began last week on the atomic power station at Sizewell, Suffolk, which is being built for the Central Electricity Generating Board by the English Electric, Babcock and Wilcox, Taylor Woodrow atomic power group.

The most powerful of its kind ordered so far—output on completion in 1966 will be 580-MW—it is also the most compact and it will be the first to have both reactors housed at either end of a composite building.

Plant brought into action for the early earthmoving operations had been assembled at Sizewell over the previous few days. Although much of it came direct from the Southall, Middlesex, headquarters of Taylor Woodrow Construction Ltd., some travelled from the Bristol Channel, where the consortium are in the later stages of construction the first 500-MW atomic power station at Hinkley Point, near Bridgwater.

Equipment will grow in size as work advances, culminating in the dismantling at Hinkley Point and re-erection at Sizewell early next year of the Babcock and Wilcox 400 ton Goliath crane. The crane will straddle the reactor building on its own railway lines and insert from above heavy sections of the steel pressure vessels and the boiler shells.

### Excavation

In all, excavation will amount to over  $\frac{1}{2}$  million cu. yd., but before detailed excavation of the foundations can begin, it is necessary to move and level approximately 300,000 cu. yd. of sand. By bulk excavation methods, scraper type equipment will have moved most of this quantity within five weeks of the starting date.

While this is in hand, progress is being made on a system of access roads round the site and the erection of the many temporary buildings required.

Three months after the starting date, by the beginning of July, detailed excavation of the reactor foundations will be well advanced, and the majority of the temporary works required initially on site will be in operation. These include concrete batching plants—the site will make its own concrete at a rate of up to 4,000 yd. cu. weekly—workshops, offices, and a canteen.

As soon as the batching plants are operating, a start will be made on the reactor foundations and the first of the heavier equipment will be brought into use—two 7 ton ground derricks with 120ft. jibs. To minimise differential settlement effects, comparable operations on the two reactors will take place within a short interval of time.

Foundations are to be of the raft type constructed in a series of lifts and bays. They will involve the excavation of 17,000 cu. yd. of sand and the placing of 140,000 cu. yd. of concrete, and the reinforced concrete raft will be 225ft. long by 110ft. wide.

Both gabbard derricks and tower cranes will be used to master and assist the construction of the biological shields and the superstructure of the 193ft. high, 400ft. long reactor building. The primary biological shield, which will contain the pressure vessels, will have 6ft. thick concrete walls forming a duodecagon rising to a height of over 86ft. above the foundations, and will be supplemented by extensive secondary shields.

The foundations of the turbine house are deeper than those of the reactor, and involve excavation to a maximum depth of 35ft. The consortium problems here are conventional, although the two massive turbo-bases are unusual. In the founda-

tions for the turbine house some 140,000 cu. yd. of sand will be excavated and approximately 130,000 cu. yd. of concrete placed below ground level. An extensive de-watering system will be required to lower and control the ground water.

### Cooling Water Intake

Another important feature of the civil engineering work will be the construction of the cooling water intake 1,800ft. from the shore, through which sea water will be drawn at the rate of over 27 million gallons an hour, and after use, discharged at a point 500ft. off-shore.

Four tunnels of 10ft. diameter have to be driven on the off-shore works. Two of these lead to the intake position and two to the discharge position. These tunnels will be driven under compressed air conditions to positions below the intake and outfall.

Shafts will then be jacked upwards through the sea bed to form intake and outfalls. These will be finished off from working platforms established above high water level.

A major operation of de-watering will be involved in the construction of the cooling water pumphouse and access shaft to the cooling water tunnels. Excavations will go down to a depth of some 70ft. and the ground water table will be lowered by some 40ft. A system of deep wells will be sunk to control the ground water as necessary. The tunnel access shaft will be formed within a curtain of steel sheet piling. The excavation of the C.W. pumphouse will be carried out within a system of open cut batters and steel sheet piling.

### Site Investigations

To facilitate the planning of the work, additional site investigations have been carried out in the past three months. These have included additional boreholes for further soil mechanics information; a detailed survey of the site; a test well to investigate ground water control problems; ground stabilisation investigation; and the testing of alternative sheet piling procedures to determine the optimum method for driving such piles.

The labour force, of whom 300 were engaged initially, will rise to about 2,400 in 1962, some of whom will have living quarters in a site camp.

In charge of Taylor Woodrow operations at Sizewell is Mr. V. Blondell from Hinkley Point, who was also site agent at Calder Hall, the atomic power station.

### Heavy Engineering

The heavy mechanical engineering phase of the undertaking and some of the nuclear engineering work is the responsibility of Babcock and Wilcox Ltd., who will manufacture the component parts at their works in Renfrew and Dalmuir, Scotland, from where they will be shipped for complete fabrication and erection on site.

Among the plant they have designed and are now building are two 63 $\frac{1}{2}$ ft. diameter reactor pressure-vessels, eight 91 $\frac{1}{2}$ ft. high and 22 $\frac{1}{2}$ ft. diameter boilers and all the ancillary coolant gas ducting and steam piping. They will also supply thirteen cranes ranging in capacity from 2 tons to 250 tons, besides the Goliath crane.

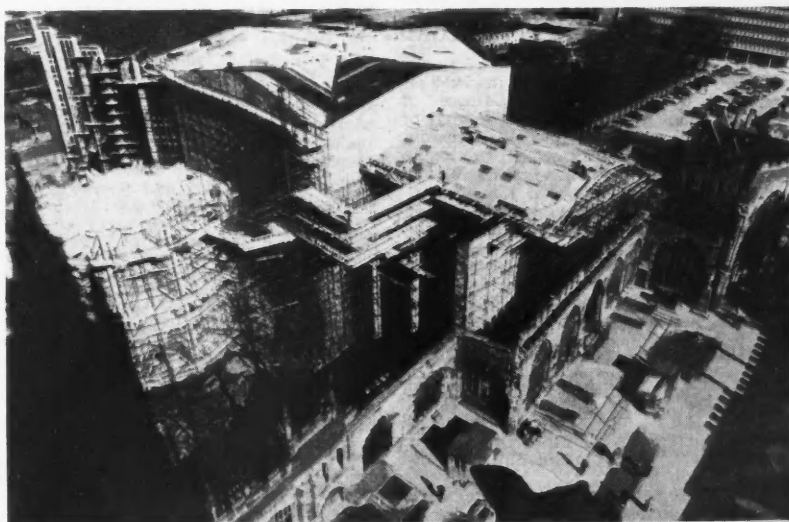
### Electrical and Nuclear Engineering

The English Electric Co., Ltd., will be responsible for the nuclear and electrical engineering, and in the latter will be supplying the main turbo-generators, transformers, switchgear, circulating fans and auxiliary motors. The station will be exceptional in that it will only use two very large generators, each of 325,000-kW capacity, to produce power for the Super-grid and to drive the circulating fans.

The turbine house will be about 385ft. long by 155ft. wide, flanked by the electrical annexe at a higher level.

The turbo-generators will be made at English Electric's Rugby works, and nuclear components at Whetstone, alternators, motors, transformers and switchgear at Stafford and Liverpool and the condensing plant at the Netherton factory, near Liverpool.

A heavy-lift 200 ton crane has been installed by the C.E.G.B. at the South Quay at Lowestoft, where the heaviest and most bulky equipment will be landed after shipment from the Clyde and Merseyside.



This photograph of the new Coventry Cathedral under construction, taken from the Old Tower, was shown at the recent "Building in the 'Sixties" Exhibition held at the Guildhall, City of London. The architects are Sir Basil Spence and Partners; consulting engineers, Ove Arup and Partners; and the contractors John Laing and Son, Ltd.



### EXPANDING TOWNS IN HAMPSHIRE

**T**HE New and Expanding Towns Committee of the L.C.C. report that the drive for expanding towns in Hampshire will produce new forms of consultation and organisation of officers between the Council, the Hampshire C.C. and Andover and Basingstoke B.C.s.

At Basingstoke, a separate organisation is to be set up immediately consisting of specially recruited officers, to take over the completion of the Basingstoke town map and subsequently to implement the plans for the further expansion of the town. A general manager and an architect/planner will be appointed in the near future. A small team of officers will work direct to the Basingstoke Joint Town Development Committee and will be responsible to them for the execution of the scheme as a whole. Much of the detailed work will be put out to architects and other specialists in private practice.

At Andover a joint committee consisting of four members of Andover Borough Council, three of Hampshire C.C. and three of the L.C.C. will be responsible for the preparation and execution of the town development scheme. It has been agreed that the L.C.C. will act as agent for the B.C. for the development of its housing and industrial sites and the council is now recommended to enter into a formal agreement.

The original expansion proposals are to be extended to provide for an additional population of 25,000 (5,000 by private development) which, allowing for natural increase, means that the total population of Andover will rise to about 48,000 ultimately. This increased expansion involves the erection of 6,000 dwellings over 20 years of which about 4,000 would be built in the first 10.

The amount of town centre redevelopment necessitated is more than Andover B.C. could bear unaided and it has been agreed in principle that the L.C.C. and Hampshire C.C. will assist in the phased acquisition of certain central areas.

#### Banbury Scheme

At Banbury, Oxon, an agreement is to be entered into between the L.C.C. and the B.C. for a town development scheme involving the erection by the B.C. of about 2,000 dwellings for Londoners and development of industrial sites over a period of about 10 years. The L.C.C. will meet interest charges during construction of the houses and half the housing deficiency for 10 years for each dwelling occupied by a tenant nominated by the L.C.C.

### CEMENT WORKS' SAFETY RECORD

An accident-free record of 0.5 per 100,000 man hours worked in 1960 is reported by the Blue Circle Group of cement companies. There was a total of 91 lost time accidents in 1960 compared with 145 in 1959, in 29 cement producing units. In all, 9 works were completely accident-free.

The year 1960, jubilee year of Associated Portland Cement Manufacturers Ltd., the Blue Circle parent company, was the fortieth year of accident prevention efforts by the companies.

### INDUSTRIAL AND FACTORY LAW

A course of lectures on industrial and factory law will be given by Mr. Harry Samuels, O.B.E., M.A., under the auspices of the Industrial Welfare Society, at their headquarters, 48 Bryanston Square, London, W.1, on May 9-11.

The course covers the legal groundwork necessary to industrial managers and executives and in view of recent important legislative changes in this sphere is also intended as a refresher course.

Further particulars may be obtained from the secretary of the society.

### £1M. CONTRACT FOR CITY OFFICES

**A** START is about to be made on the £1m. scheme for an office block at Queen Victoria Street, London, E.C.4, for Priane Investment Co., Ltd. Taylor Woodrow Construction, Ltd., have been awarded the contract, which will take two years to complete.

The building will incorporate a museum for the College of Heralds, and will have frontages to Queen Victoria Street and to Carter Lane. It will be six storeys high, with a floor area of 200,000 sq. ft.

Campbell Jones and Sons, 9 Dowgate Hill, London, E.C.4, are the architects, and Widnell and Trollope, Broadway Court, London, S.W.1, are the quantity surveyors. The consulting engineers are Malcolm Glover and Partners, 276 Terminal House, Grosvenor Gardens, London, S.W.1.

### £552M. PLAN FOR LONDON CAR TUNNELS

A plan for solving Central London's traffic congestion by the construction of eight double-decker tunnels for commuter cars has been sent to the Minister of Transport by Covell and Matthews, architects and planning consultants. The plan would cost £552 million.

It would take 20 years to complete the scheme, which provides for 52ft. diameter tunnels running between eight points on the urban ring road around London, proposed by the British Road Federation.

The plan is based on the principle of separating pedestrians from high-speed vehicles and of one class or group of vehicles from another. Public transport and delivery vehicles would continue to use the surface roads.

### SURREY ROAD IMPROVEMENT

Mr. Ernest Marples, Minister of Transport, has made a grant of £117,750 to Surrey County Council for the improvement of a one-and-a-quarter mile stretch of the A.25 route in that county. Total cost of the work is estimated at £157,000.

The immediate scheme will provide a straighter 33ft. wide carriageway and 6ft. footpath between Oxted and Limpsfield. A by-pass for Oxted will later be undertaken, and ultimately the improvement will be carried to the Kent boundary.

### BIRMINGHAM INNER RING ROAD

#### Tenders Shortly for Underpass

It is anticipated that tenders will be invited by public advertisement in about three weeks' time for the road and structural work in connection with building an underpass in Section 1, Part 111 of the Birmingham Inner Ring Road Scheme.

The City Engineer and Surveyor is Sir Herbert J. Manzoni, C.B.E.

### SECRETARY TO ADDRESS CANADIAN CONFERENCE

Mr. Walter Woodford, secretary of The Institution of Production Engineers, has been invited to address the conference which is to run concurrently with the National Industrial Production Exhibition in Toronto, next month.

He will speak at one of the plenary sessions, on "International Co-operation for Productivity in the Future".

Mr. Woodford will spend about three weeks in Canada, and will take the opportunity of meeting officers and members of the Institution's Canadian branch, and will explore the possibility of establishing a new Section in Montreal.

### Late Construction News

**NEW OXFORD COLLEGE.**—Work will begin at the end of this month on the foundations and drainage for the new St. Catherine's College at Hollywell Great Meadow, Oxford. The contract, worth about £120,000, has been placed with Marshall Andrew and Co., Ltd., 40 Broadway, London, S.W.1. The superstructure contract is expected to go out to tender in May. Prof. Arne Jacobsen, Pembroke Studios, Pembroke Gardens, London, W.8, is the architect, and the consulting engineers are Ove Arup and Partners, 13 Fitzroy Street, London, W.1. The quantity surveyors are Northcroft, Neighbour and Nicholson, Victoria House, Southampton Row, London, W.C.1.

**WATFORD FACTORY.**—J. Jarvis and Sons, Ltd., 239 Vauxhall Bridge Road, London, S.W.1, have been given the contract to build a factory and office block at Bushey Mill Lane, Watford, for R. and J. Beck, Ltd. The architects are Dawe Carter and Partners, 33 Clarendon Road, Watford, and the quantity surveyors are V. B. Johnson and Partners, 16 King Street, Watford.

**IPSWICH PRIMARY SCHOOL.**—The tender of Sadler and Sons, 81 Richmond, Ipswich, amounting to £106,125, has been accepted by Ipswich B.C. for the erection of the Guseford Primary School.

**PORTSMOUTH HOUSING.**—Portsmouth City Council have been recommended to accept the £128,919 tender of H. E. Collins, Ltd., Eastern Road, Farlington, Portsmouth, for building 50 houses and 44 garages at Clacton/Halstead Roads, Wymering.

**LARGE BIRMINGHAM CONTRACTS.**—During last month Birmingham City Council accepted the following tenders for housing development: 214 dwellings and 134 garages, Kingshurst Hall Estate—Morris and Jacobs, Ltd., 71 Hob Moor Road, Birmingham, 10, £447,153; 68 dwellings and 25 garages, Newtown Redevelopment Area, Unit 102—George Wimpey and Co., Ltd., London, W.6, £209,230; 100 dwellings, a shop and 16 garages at Highgate Redevelopment Area—Direct Labour, £279,280; 216 dwellings and 140 garages, Fox Hollies Hall Estate—Morris and Jacobs, Ltd., £615,397.

**DWELLINGS AT WELLINGTON.**—Two housing contracts have been placed with Lewis Bros. (Wednesfield), Ltd., Wednesfield, Staffs., by Wellington (Salop) R.D.C. One is for 148 dwellings at Oakengates, Donnington, £227,675, and the other for 116 dwellings at Hadley Vallens, Hadley, £180,839.

**SEWAGE WORKS EXTENSION.**—Subject to Ministry approval, Wokingham (Berks.) R.D.C. are to accept the tender of Shephard Hill and Co., Ltd., 25-27 Central Chambers, London, W.5, at £159,968, for extensions to the Marsh Farm sewage disposal works. The consulting engineers are Howard Humphreys and Sons, West Street, Epsom, Surrey.

**NOTTINGHAM HOUSING.**—Nottingham City Council have negotiated a contract with Rostance (Builders), Ltd., Beechdale Road, Nottingham, for the erection of an 11-storey block of 45 two-bedroom maisonnettes north of Boden Street. The cost will be £121,888.

**PLYMOUTH FLATS.**—The £168,068 tender of Staverton Contractors, Ltd., Totnes, Devon, has been accepted by Plymouth City Council, for building 84 flats at Ker Street.

**CONTRACT FOR 246 DWELLINGS.**—Crewe B.C. have awarded a contract to Reema Construction Co., Ltd., Salisbury, Wilts., for the erection of 246 dwellings at Moat House Farm. The tender amounted to £454,935.

**NOTTS. FACTORY EXTENSION.**—Sir Robert McAlpine and Sons, Ltd., have been given a contract to build extensions to the Metal Box factory at Sutton-in-Ashfield, Notts. Work is about to begin on the contract, which involves a single-storey factory, office blocks and ancillary stores. The architects are Booth Ledebor and Pinckhead, Oxford.



# DEVELOPMENT OF READY-MIXED CONCRETE

## Modern Plant and Methods

"**R**EADY-MIXED concrete has come to stay and as the years go by more and more contracts will be organised to take advantage of the facilities which it offers," said Mr. VICTOR S. WIGMORE, F.S.E., concrete consultant, in a Paper presented at a meeting of the West of England branch of the Reinforced Concrete Association held in Bristol recently.

"It is up to the suppliers of ready-mixed concrete (particularly the 'new boys' coming into the industry) so to control the quality of their concrete, and so to perfect their organisation, that ready-mixed concrete will be regarded as the thoroughly dependable product it can—and should—be" he stated.

Mr. Wigmore commenced his Paper by describing concrete and its constituents and then dealt with the history and development of ready-mixed. Dealing with modern plant and methods he stated:

The real increase in the number of ready-mixed concrete plants has taken place over the last five years and it is estimated that there are now well over 200 plants in the United Kingdom. Some of the plants are designed for use in conjunction with agitators only, some for truck-mixers only and some for both agitators and truck-mixers.

### Types of Plant

Plants for use with truck-mixers only are usually referred to as dry-batching plants, the aggregates and cement being weighed and dropped direct into the truck-mixer. Some of these dry-batching plants also weigh and measure the water before it is delivered into the water tank on the truck-mixer so that the driver's responsibility, as far as the water is concerned, is to see that the tank is completely emptied into the mixer at the appropriate time. At other plants measuring devices on the water tanks fitted to the truck-mixers are used and the driver is given instructions as to the number of gallons to add.

The plants used for agitators have a central mixer of a capacity to suit the size of agitators used and range up to four or more cu. yd. At these plants the whole of the aggregates, cement and water are thoroughly mixed before being dropped into the agitators.

The type of plant used varies considerably, from simple manual control where a man pulls levers, to the highly automatic where one just presses a button. The essential requirement of a batching plant is that it shall weigh accurately every ingredient and, given good technical control just as good concrete can be supplied from the simple weigh-batcher as from the highly automatic plant. Most weigh-batchers now have dials which indicate the quantities being weighed and, from the standpoint of accuracy, the dial should be of large diameter with increments clearly marked. The general rule is a maximum increment of 20lb. for the dials measuring the aggregates, and of 2lb. for the dials measuring the cement and water. Flowmeters which register the quantity of water flowing into the tank—somewhat in the same way as petrol is measured at garages—are sometimes used instead of a weigh tank.

There are many different types of apparatus on the market for determining the moisture content in the aggregates, but the one which is probably most useful for the ready-mixed concrete producer is the type that can be fitted to the sand weigh-hopper or to the mouth of the bin just above the weigh-hopper. This automatically records the percentage of moisture for each batch of sand. It is usual to run off some of the sand before reading the meter in case any water has drained down to the bottom of the bin.

So far as the moisture in the coarse aggregate is concerned it is possible, after a few weeks of operation, to be able to fix an average percentage to cover the normal fluctuations.

The methods used for filling the bins with aggregates vary according to the set-up of the plant and consist of belt conveyors, bucket conveyors and cranes as well as a kind of cliff-lift in which two jyd. skip-hoists are filled from a boot and climb at a steep angle to the top of the bins. They are counter-balanced so that when one container is emptying itself at the top, the other one is being filled at the bottom. A chute at the top of the bins, controlled by push buttons in a hut on the ground, delivers the aggregate into its proper bin. These bins normally contain single-sized aggregates, 1½in., ¾in., ½in., and sand, and vary in capacity according to the size of the plant.

The larger cement bins are divided into compartments to contain two or more types of cement and the cement is usually blown into the bins from pressurised bulk containers. Bucket elevators are also used.

At some plants control of trucks and agitators is exercised by radio installed in the drivers' cabins; the depot is kept informed of delays and fresh instructions can be issued to the drivers if necessary.

Extra water to be used for washing out the drum on the return journey is carried by many types of vehicle. Disposal of this washing-out water is a big problem in the built-up areas and settlement tanks are often necessary to cope with it; in these the solid matter sinks and the water overflows from one tank to another until it is clear enough to comply with the local laws for discharge into a river. The solid matter is periodically dug out of the tanks and carted away.

### Technical Control

The accuracy of the weighing apparatus and the efficiency of the plant generally is of vital importance; but the real factor that governs the success of any plant is the quality of the technical control. With the rate of increase in the number of plants supplying ready-mixed concrete the demand for concrete engineers with the necessary specialised knowledge and experience exceeds the supply.

The knowledge that the average concrete engineer has gained on contract sites is not sufficient for the more specialised control needed for ready-mixed concrete.

On the average contract site, the concrete engineer's main function is to see that the correct quantities of each of the ingredients go into the mixer; that the consistency is right and that it is placed properly. He may have only one or two different classes of mixes in a day and occasionally a mix to design on a strength basis.

Contrast that with the work of the technical executive at a ready-mixed concrete plant. He has to know the number of pounds of each ingredient (including water) needed to produce 1 cu. yd. of fully compacted, plastic concrete for an infinite variety of mixes. He may be called upon to supply that data for 20 or 30 different classes of concrete in any one day and well over 100 different mixes in a year. Not only must he know exactly how much is required to produce a given volume of concrete but he must know the slump it will have at the end of its journey and the strength it will have at 7 and 28 days. As the quantity of aggregates and cement in a given volume of concrete will vary, within certain limits, with the consistency of the concrete, he should know, for every mix, the range of such variations for concrete showing a 4in. slump down to concrete having no slump.

If he does not possess that information and, for a given mix, uses the same weights

of aggregates and cement for a no-slump concrete as he found satisfactory for a 2in. slump, then his yield will be short.

From the economic standpoint this data is also important as a yard of concrete giving a 4in. slump may have 20-30lb. less cement in it than concrete of the same proportions having, say, a 1½in. slump.

To obtain this information it will be appreciated that a laboratory attached to the plant is essential or, in the case of those small plants supplying rural areas, the technical executive should have laboratory facilities available at not too great a distance from the plant.

Large numbers of concrete cubes have to be tested, so that when concrete is designed for guaranteed strength, a fair indication is at hand to show the strengths normally obtained with the aggregates and cement in use. Upon those strengths the technical executive can gauge what allowance he can safely make for the variables already mentioned at the beginning of this Paper. He will receive many requests, over the telephone, for a price for concrete from people who have little knowledge of concrete and who tend to become annoyed if an attempt is made to find out what type of concrete is wanted. Usually it boils down to finding the purpose for which the concrete is to be used and then producing a mix which, it is hoped, will do the job. It is found that many buyers are vague as to the consistency required and when this is explained to them, they invariably want it "wet."

There have been occasions when a householder has asked for a load of concrete to be delivered on a certain day. The truck has arrived and the lady of the house orders the load to be tipped in the road and her husband will see to it. The husband arrives home from work later in the day to find that he has a pile of set concrete in the road outside his house.

Another case reported recently was for 3 cu. yd. of concrete to be delivered to a certain house. The technical executive at the plant knew the location well and knew that the concrete would have to be taken up some 14 or 15 steps before it could be placed. It was pointed out that 3 cu. yd. of concrete represented quite a lot of concrete but the purchaser was quite happy about it. He said he had plenty of helpers and plenty of buckets! According to information received, the load was dumped in the road at 11 a.m. and the remains were being brushed up at 3 p.m.

There are also those who, for example, asked for a 6:1 concrete and are completely mystified when an attempt is made to find out which of the following alternatives is required:

- (a) 6:1 by weight ¾in. or 1½in. max. size aggregate
- (b) 6:1 by volume ¾in. or 1½in. max. size aggregate
- (c) 4:2:1 by weight ¾in. or 1½in. max. size aggregate
- (d) 4:2:1 by volume ¾in. or 1½in. max. size aggregate.

It has even been known that what was intended was not a 6:1 but 6:2:1.

From this example it will be appreciated that intending purchasers should state clearly exactly what they want or, if they do not know, then state for what purpose the concrete is wanted and ask the technical executive for his recommendation.

The revised edition of the British Standard Specification will include a table detailing the information which should be supplied when ordering concrete, such information varying according to the method of specifying.

At the other end of the scale is the purchaser who has some technical knowledge but does not fully appreciate the practical limitations. Such a purchaser will consult Road Note 4—a most useful booklet—and will then try to improve on the w/c



ratio and strength. He will specify mix proportions, w/c ratio and strength, making no mention of consistency. The strength he asks for is that shown on the w/c ratio curve, which is related to laboratory-made and laboratory cured cubes. He ignores the table in the Road Note which gives the estimated relation between laboratory-made cubes and site cubes. From that table it is seen that the minimum strength of works' cubes can be between 40 per cent. and 75 per cent. of the average strength obtained in the laboratory.

When the ready-mixed concrete supplier receives an inquiry for concrete to such a specification he is in a dilemma, particularly if he knows the inquiry has gone out to a number of suppliers.

It would seem that he has three possible courses open to him:

1. He can tell the purchaser that the specification is unreal and that if a sufficient number of cubes is taken, some of them will fall below the specified strength; or
2. He can take a chance and hope that the cement will be particularly strong and that the cubes will be properly made and cured; or
3. He can design a mix that will definitely give the required strength but with a much lower w/c ratio.

If he adopts (1) his advice may not be welcomed. If he takes a chance as in (2), and some of the cubes fall below the specified strength, then ready-mixed concrete is branded as an unreliable product. If he adopts (3) his price for the concrete will be much higher than the competitor who takes the risk and supplies the concrete as specified and he will lose the order.

Should he, perchance, tell the purchaser that the concrete as specified will produce a lower average strength on the job he will most probably be told that there is no difficulty whatever in obtaining those results with site-mixed concrete. This may well be true so far as site-made cubes are concerned. Education in concrete has now become so widespread that nearly every foreman knows that the stiffer the mix, for a given set of proportions, the stronger the concrete. He also knows, usually from bitter experience, the trouble that a low cube result can cause. Can he, therefore, be blamed if he makes his cubes from one of the stiffer batches that come out of his site-mixer during the day? As the site-mixer is usually of relatively small capacity this small quantity of stiffer concrete will not cause any undue difficulty when being placed. If, however, an agitator or a truck-mixer arrives with 4 cu. yd. of concrete of that consistency it would not be welcomed.

Cubes made at the site from ready-mixed concrete, therefore, represent a much larger volume of concrete than cubes taken from site-mixed concrete, and are more likely to represent the strength of the concrete in the job.

Where a minimum cube strength is specified, it would seem advantageous for the purchaser to ask for a guaranteed strength concrete, giving a *maximum* w/c ratio to govern durability, the slump (or other workability factor), subject to the tolerances in B.S. 1926, to govern shrinkage, as well as the minimum strength or other test requirement. The maximum nominal size and type of aggregate can also be specified, leaving to the concrete supplier the actual mix design within the limits given.

Some confusion still exists with regard to w/c ratio and consistency. A high w/c ratio does not necessarily imply a sloppy concrete nor does a low w/c ratio mean a dry concrete.

It is not possible to tell by looking at a concrete mix whether it has a high or low w/c ratio unless the mix proportions and the grading of the aggregates are known. A mix of 10:1 for example could have a high w/c ratio but the mix could be of no-slump consistency. On the other hand a 1:1:2 concrete could have a low w/c ratio, say 0.4, and yet have a high slump.

Mention has been made earlier of the necessity for the person responsible at

the plant to know the exact quantities of materials required to produce a given volume (say, 1 cu. yd.) of concrete when in a plastic and fully compacted condition. The method used for determining these quantities varies but the one that has probably been used most is that known as the absolute volume method. This involves a series of calculations based on specific gravities of the individual materials and although the results are reasonably close, the yield has been found, on occasions, to be short by 2-3 per cent. It is as well, therefore, to check this by direct measurement, which can be done quite simply in the laboratory on small quantities.

When the laboratory has determined the correct weights for a given volume of concrete, they are transferred to batching cards for use by the weigh-batching operators. Some plants show a number of different mixes on one large card whilst others, in order to eliminate the possibility of the operator reading the wrong line of figures, have separate cards for each set of batch weights. Each mix is given a letter, or number, and the cards are enclosed in Cellophane and filed in boxes for easy reference.

One method of identification is to give each mix a letter followed by the w/c ratio. For example, 4:2:1 concrete with  $\frac{1}{2}$  in. maximum size aggregate, having w/c ratios of 0.60 and 0.57 respectively could be A.60 and A.57; 3:1:1 concrete with w/c ratios of 0.48 and 0.50 respectively could be B.48 and B.50. The letters "X" and "Z" can be used as prefixes representing  $\frac{1}{2}$  in. and 1 in. maximum size aggregate respectively, with a special code for guaranteed strength mixes.

#### Costs

This Paper would not be complete without some reference to the cost of ready-mixed concrete. To the contractor who normally mixes his own concrete at the sites the price of ready-mixed concrete may seem high but he should first of all be sure that the quantities he has assumed to produce a cubic yard of concrete do, in fact, do so. Then, to be strictly fair, he must include the cost of transporting his mixer, weighbatcher and cement silo, together with storage of aggregates (not forgetting the inevitable wastage of aggregates on site), maintenance of plant (including depreciation and insurance) or, if hired, the hire charges; the responsibility for concrete quality and design—and all labour and supervision connected with those items.

Where the agitator or truck-mixer can deliver its concrete directly into position, e.g., for retaining walls, foundations, etc., there should be a big saving on placing costs. On the other hand, if site-mixers, aggregate, cement, etc., are already on the site and ready-mixed concrete is to be used for only a small portion of the work, the advantage would not be so much.

An important point to which attention has been drawn by Mr. B. J. Ray, chairman of the British Ready Mixed Concrete Association, is that site labour requirements are considerably reduced when using ready-mixed concrete so that the results of "wet time" will not be so serious. When a job is held up for any reason—by excavation difficulty, formwork not being ready, rain or frost, for instance—the contractor is involved in no cost so far as concrete production is concerned.

#### Co-operation Between Purchaser and Supplier

If the greatest possible advantage is to be taken of ready-mixed concrete there must be real co-operation between the purchaser and the supplier, and the contractor should plan to receive the large batches of 3, 4 or more cu. yd. of concrete. There should be prompt notification to the depot of any delay in the concreting programme so as to avoid a cluster of truck-mixers or agitators at the site waiting to discharge their contents. Where the concrete is required to be delivered in truck-mixers, as distinct from agitators, permission should be given for the concrete to be mixed en route to the job so that

it can be discharged immediately upon arrival.

Occasions arise when the work has been held up and an agitator scheduled to commence discharging at, say, 11.30 a.m. is kept waiting whilst shuttering is being fixed. The whistle sounds and the agitator is kept waiting until after the luncheon break before the remainder of the load can be discharged. Incidents like these can disorganise the time schedule, not only for the site concerned, but also for other sites. It has been known for truck-mixers to be kept at a site for as long as six hours because of bad organisation at the site. With the will to co-operate it should be possible, with modern communications, to minimise if not to eliminate, many of these delays.

The ready-mixed concrete supplier must endeavour to deliver the concrete punctually and at the correct intervals. This is not an easy matter in these days of traffic jams, but where drivers are in radio contact with the depot it should be possible to let the site know what is happening so that the receiving arrangements can be adjusted.

It may be that the answer to the traffic problem in some congested areas will be to place the concrete at night but this, in turn, may introduce other problems.

Another point upon which the site can co-operate with the supplier is in ensuring that the ground at the point of delivery is firm enough to take the weight of the agitators or truck-mixers. Occasions have arisen in which, against the driver's better judgment, but in face of the foreman's instruction to take the load back if he could not come nearer, he has backed his truck farther in—only to get it bogged down. Such incidents as these cause delay and annoyance to everybody and they can arise, possibly, as a result of a sense of rivalry—the contest being between the site-mixed concrete and the ready-mixed concrete. However, the attitude of most modern foremen is one of relief that the responsibility for the quality of the concrete rests on other shoulders and he will see to it that the cubes made on the site from the ready-mixed concrete have proper treatment. He knows that it is in his own interest to do so as delay can only follow a low cube result. Further concreting is held up until cores have been taken and tested and the concrete proved to be satisfactory. Give him good service, concrete of the consistency as ordered and at the time specified, and his co-operation is assured.

#### Addition of Extra Water

One of the causes of friction between the site foreman and the driver of the agitator or truck-mixer is when the foreman wants the concrete to have a bigger slump than that originally ordered. The addition of water over and above that required in the mix design of the concrete cannot, of course, be condoned by the suppliers and they usually have a note on their delivery tickets to the effect that they accept no responsibility if the purchaser adds or requires to be added on the site any water beyond that stipulated before the concrete leaves the plant.

At some plants drivers are instructed, should such an occasion arise, to warn the foreman that the addition of water may reduce the strength of the concrete below the specified requirements. If there has been a delay at the site and the quantity added is only just sufficient to bring the concrete back to its original consistency—and if this extra water is thoroughly mixed with the concrete—the adverse effect on the strength will probably be less than that represented by the slight increase in w/c ratio.

Nevertheless, given thorough co-operation between site and plant, the occasions when extra water is really needed should be the very rare exception. There will, however, always be the occasional foreman who wants it wetter than the 2 in. or 3 in. slump ordered and, when the foreman says "Let's have some water" there are too few drivers who will withstand the pressure put on them.

(Concluded on page 156)



## GRANTS FOR MAJOR ROAD IMPROVEMENTS AT CROYDON AND CANTERBURY

**G**RANTS amounting to £1,335,193 were announced last week by the Minister of Transport, Mr. Ernest Marples, for major road improvements at Croydon and Canterbury.

Towards the total cost, estimated at £1,215,000, of two widening schemes and the construction of an underpass, Croydon Borough Council receive grants totalling £835,000.

The two schemes, designed to relieve the mounting traffic congestion at the junction of George Street, Wellesley Road and Park Lane, form part of the Croydon redevelopment plan which allows for an Inner Ring Road with spur roads to the north, south, east and west.

The first scheme is the widening of Wellesley Road-Park Lane, between Lansdowne Road and Friends Road, a distance of approximately 650yd.

At present this road is 40ft. to 50ft. wide with a single carriageway of 23ft. to 33ft. wide. The new road will be 125ft. wide with dual carriageways varying from 22ft. to 27ft. wide with footpaths widened to 10ft. and 15ft.

The scheme also provides for the construction of an underpass for north-south traffic and a pedestrian subway. The underpass and its approaches will be about 430yd. long with four traffic lanes, each 9ft. 9in. wide.

This scheme will cost £826,500 of which the Minister of Transport will contribute £620,000.

The second improvement provides for the widening of George Street between Altyre Road and Park Lane, a distance of about 365yd. The existing highway will be widened from 50ft. to 80ft. with a single lane of 48ft. as against the present lane of 24ft. to 30ft.

The railway bridge will be widened from 43ft. to 90ft. to provide a dual carriageway with 30ft. lanes.

The two schemes have been designed by Mr. A. F. Holt, A.M.I.C.E., M.I.Mun.E., M.I.Structural E., borough engineer of Croydon. Work on the underpass will be carried out by contract and direct labour will be employed on the other roadworks.

### Canterbury By-pass

The modernisation of the London-Dover trunk road (A.2)—one of the five major projects in the road programme—is to be carried a stage further by the construction of more than a mile of new road in Canterbury to enable through traffic to by-pass the city centre. Work is expected to start in the late summer.

The Minister has made a grant of £482,193 to Canterbury City Council towards the cost of the scheme.

The new road will extend from the city boundary at Harbledown to St. Peter's Place and then swing south-east, forming part of the Canterbury Ring Road, to the junction with the Ashford Road (A.28) at Wincheap Green. Eastbound traffic will then continue round the Ring Road to its junction with St. George's Street where the A.2 branches off to Dover.

In addition, a short spur road will link St. Peter's Place to the A.2 at West Gate.

Between the city boundary and Wincheap Green, the new road will have dual 24ft. carriageways and two 10ft. footpaths. The spur road will have a 22ft. carriageway and two footways, one 7ft. and the other 9ft. wide. The total length of the improvement is 1,948yd., and the work will be carried out by contract under the supervision of the Canterbury city engineer, Mr. J. E. Rhodes, B.Eng., A.M.I.C.E., A.M.T.P.I.

## 39FT. SPAN TIMBER ROOF IN BLACKBURN LOUNGE BAR

**A** TIMBER roof with a clear span of 39ft. is a feature of the recently rebuilt lounge bar of "Ye Olde White Bull" at Blackburn, Lancs.

The roof is of lamella and is a cylindrical barrel, 34ft. 6in. long. No ties were required since the roof abuts at one end on to a brick wall, into which steel tie beams have been incorporated, and at the other end on to a tied arch in glued laminated

timber. The arch has been glazed to provide a clerestory light.

The architects for rebuilding the inn, which is owned by Dutton's Blackburn Brewery, Ltd., were Yates, Cook and Darbyshire, London. F. Parkinson, Ltd., Blackpool, were the general contractors and J. Long and Co., Bristol, constructed the roof, which was designed by Simon Wolf, B.Sc., A.M.I.Struct.E.



View of the lounge, showing the lamella roof

## PLANT "BRAINS TRUST" Lively Yorkshire Discussion

**I**T has often been said that manufacturers, hirers and users of construction equipment would not be prepared to discuss together in public the problems with which they and the industry generally are faced from day to day or give their views on the many contentious matters which arise in relation to contracting. That this assumption was wrong was proved conclusively last week when the Yorkshire branch of the Contractors' Mechanical Plant Engineers held a "Brains Trust" at the Hotel Metropole, Leeds.

The members numbering more than 100 who attended the meeting, thought to be the first of its kind to be held in this country, heard the panel discuss such matters as standardisation, long-term contract hiring, plant hire rates, lubrication, manufacturers' practices, selling techniques, servicing, guarantees, maintenance and servicing records, the wider use of mechanisation in the contracting field, retention moneys and tendering.

The questions brought forth a lively exchange of views between members of the panel who to their credit never shirked answering the most provocative question. The success of the meeting can be gauged from the fact that the chairman of the panel had to close proceedings after 2½ hours of discussion with questions still being put to the panel.

This was undoubtedly one of the best meetings, if not the best, held by the Yorkshire branch and showed how valuable such organisations as the Contractors' Mechanical Plant Engineers can be to the contracting industry. Much praise is due to the members of the panel and this was generously given by Mr. W. J. Muircroft, chairman of the branch, who expressed the hope that a similar meeting with the same panel would be arranged for a future date.

Members of the panel were Mr. J. Dayton, director, Alderton Construction Co., Ltd.; Mr. K. Lawson, plant manager, Mitchell Construction Co., Ltd.; Mr. J. Skeldon, sales director, J. C. Bamford (Excavators) Ltd.; and Mr. E. J. Spriggs, general manager, Eddison Plant Ltd. Chairman of the panel was Mr. Lawrence McCarthy, editor of *The Contract Journal*.

## RECENT MONK CONTRACTS TOTAL £800,000

A. Monk and Co., Ltd., Padgate, Warrington, Lancs. have announced that during the last fortnight they have received contracts totalling over £800,000.

These include: a new hangar, ancillary buildings and operational readiness platform for the Air Ministry; a weaving shed for Highams, Ltd., at Accrington; two contracts for the Manchester Ship Canal, including the reconstruction of a round head at Stanlow Oil Dock and the relaying of Railways at No. 9 Dock, Manchester Docks; civil engineering works for the continuous casting plant at the Scunthorpe works of the Appleby-Frodingham Steel Co.; a new packaging plant and welfare block for the British Sugar Corporation, Kelham; and the Halford Bridge diversion on the A.429, for Warwickshire C.C.

## ENGINEERING INSPECTION CONFERENCE

A conference on engineering inspection and non-destructive testing is to be held at Oxford from September 5 to 8. It is being organised jointly by the Institution of Engineering Inspection and the Society of Non-destructive Examination.

The total cost, including conference fee, accommodation and meals will be £9 10s. per delegate. Further information is available from the Oxford Conference Secretariat, Institution of Engineering Inspection, 616 Grand Buildings, Trafalgar Square, London, W.C.2.



## Men and Movements

**SIR ELLIS HUNTER** has retired from all executive appointments in the Dorman Long group, including the joint managing directorship of Dorman Long (Steel), Ltd. He will continue as chairman of Dorman Long and Co., Ltd., and its principal subsidiary companies. **Mr. E. T. Judge** has been appointed deputy chairman of Dorman Long and Co., Ltd., and managing director of Dorman Long (Steel), Ltd., of which he was previously joint managing director.

Philips Electrical, Ltd., have announced that **Mr. R. W. Bosworth** has taken over the responsibility for the Leicestershire E.A. territory on the resignation of **Mr. E. B. Dean**.

Thos. W. Ward, Ltd., have announced the appointment of **Mr. Stanley Jessop** as manager of their works at Glasgow. He will be in charge of the company's engineering interests in Scotland. Having spent all his working life with the company, whose staff he joined as an apprentice in 1928, Mr. Jessop spent some years in their machinery department before being appointed as a representative in the North Midlands in 1938. He held his position until 1945, when he returned to head office as an executive of the machinery department. In 1948 he went out to India to establish the group's interests in that country, and, returning in 1955, he became sales manager of Fredk. Town and Sons, Ltd., and Woodhouse and Mitchell, the two companies which represent the principal machine tool interests of the Thos. Ward group.

**Mr. John Marsh** has accepted an invitation to become director of the British Institute of Management from October 1. Since 1950 he has been a director of the Industrial Welfare Society.

Scottish Land Development Corporation, distributors of A.E.C. Dumptrucks, have announced the appointment of **Mr. Roy Bruce** as area sales representative for Scotland. Mr. Bruce was previously employed in the export sales department of Euclid (Great Britain), Ltd., where he gained experience in the earthmoving field.

The shipping manager of George Cohen Sons and Co., Ltd., **Mr. James Brennan**, has retired after 52 years with the company.

**Mr. E. Garside**, who is in charge of Latin-American sales for the Brockhouse organisation, will leave on April 24 for an extended tour of the South American and Caribbean territories. During his trip he will visit the organisation's existing agents and will arrange for increased representation in these areas. He will also have talks with Government and municipal authorities in connection with the specialised airfield and municipal equipment marketed by the group. He will return to London in July.



E. GARSIDE

After 25 years in office, **Sir Frederic J. Osborn** is retiring as chairman of the executive committee of the Town and Country Planning Association. He will be succeeded by **Mr. Peter Self, M.A.**

**Lord McCorquodale** has been re-elected president of the British Employers' Confederation and **Mr. E. J. Hunter** and **Mr. J. Maurice Laing** have been re-elected vice-presidents.

**Mr. W. B. Martin Scott**, an ex County Durham cricketer, was recently appointed public relations officer for Hergarth of York, Ltd. He was previously deputy chief constable of York after many years' service in Durham County Constabulary.



W. B. MARTIN SCOTT

**Mr. S. H. Hough** has been elected vice-chairman of the Pitch Fibre Pipe Association of Great Britain in succession to **Mr. D. Kirkness**, who has relinquished office after serving in that capacity for four years.

The Council of Scientific and Industrial Research have approved the appointment of **Dr. C. J. Jackson, O.B.E., M.Sc.** to be chairman of the Water Pollution Research Board for the period April 1, 1961, to March 31, 1966. He succeeds **Dr. F. H. Garner, O.B.E., F.R.I.C., M.I.Mech.E., M.I.Chem.E.** Dr. Jackson, who is the executive in charge of all water pollution problems for the Distillers Co., Ltd., both on the potable and industrial sides, was a member of the Water Pollution Research Board from 1956-60. He is chairman of the trade effluent panel of the Federation of British Industries. **Mr. E. Etheridge, B.Sc., F.R.I.C.**, a member of the central technical office of Courtaulds, Ltd., has been appointed a member of the Research Board for four years.

**Mr. W. Washbourne**, who was appointed general manager of the excavator division of Newton Chambers and Co., Ltd., Thorncliffe, Sheffield, at the beginning of this year, has now been appointed a director of two Newton Chambers subsidiary companies, N.C.K.-Rapier, Ltd., and Rhodes and Halmshaw, Ltd.

**Mr. D. A. Birch** has been appointed press relations officer with the John Thompson group of companies. For the past four years he has been responsible for optimising on nuclear power station designs. Mr. Birch joined John Thompson Water Tube Boilers 20 years ago as an engineering apprentice.



D. A. BIRCH

**Mr. G. R. Buckley** and **Mr. E. M. Summers**, directors of the Stanton Ironworks Co., Ltd., **Mr. E. M. Marvill**, director and general manager of The Sheepbridge Co., Ltd., and **Mr. R. F. A. Turner** have been elected directors of The Staveley Iron and Chemical Co., Ltd. **Mr. R. F. A. Turner** has been appointed general manager of Staveley works. The appointments have been made following the resignation of **Mr. S. N. Turner** and the retirement of **Mr. C. H. M. Owen**.

Among passengers recently disembarking from the "Queen Elizabeth" on her return from New York were **Sir Herbert Manzoni**, president of the Institution of Civil Engineers, and **Mr. Alexander McDonald**, secretary of the Institution.

John Laing and Son, Ltd., have announced the appointment to the board of **Mr. J. W. Charnley, M.I.C.E.**

(Concluded from page 154)

Unless the suppliers take a firm stand on this point, occasions are bound to arise where the concrete strength is below the minimum permitted and the concrete has to be cut out. These incidents will harm not only the plant concerned but ready-mixed concrete in general and could lead to a ban being placed on ready-mixed concrete in certain areas or by certain authorities. If a clause could be inserted in contract specifications stating that no additional water is to be added at the site it would assist the supplier.

On the other hand, of course, the supplier of ready-mixed concrete must control the accuracy of his batching, w/c ratio and mixing to the greatest possible degree. The consistency must come within the range of slumps permitted not only at different positions in the same load but from load to load. In this connection it should be noted that variations in the time of mixing and in the speed of the drum can produce marked differences in the slump of the concrete from load to load.



Seen at the recent annual dinner of the South Wales and Monmouthshire section of the Federation of Civil Engineering Contractors—seated (left to right): Mr. Kenneth Thomas (legal consultant), Mr. A. J. Hill (national chairman), Alderman Mrs. Dorothy Lewis (The Lord Mayor of Cardiff), Mr. J. H. Davies (section chairman), Mr. C. R. Wheeler (president, The British Iron and Steel Federation), Mr. R. M. Douglas (immediate past president), and Mr. J. V. Rees (section vice-chairman); standing (left to right): Mr. F. J. Collins, Mr. C. Turner, Mr. D. R. Scott, Mr. P. R. O'Day (general secretary), Mr. P. W. E. Holloway (national vice-chairman), Mr. E. H. Ramage, Mr. H. F. Ward, Mr. R. Horrocks, Mr. S. Pugh, Mr. J. M. Jones, and Mr. E. V. Dallimore (section secretary)



## Trade and Company News

## DETACHABLE SELF-LOADING DUMPER

## Morewear "Goose" Demonstrated

NOW the sole distributors of the Morewear "Goose," Mackay Industrial Equipment, Ltd., Feltham, recently demonstrated this detachable self-loading dumper to the Press at the Royal Festival Hall, London. Manufactured by R. Smith (Horley), Ltd., the "Goose" has as its power unit the new Fordson Super Major 50-h.p. tractor.

Basically the "Goose" consists of a ruggedly constructed tipping body carried on a two-wheeled "H" frame chassis which is coupled to the power unit by a goose-neck extension.

frame, and the sides and side board extensions are of  $\frac{3}{8}$  in. mild steel plate. The sides and the floor are reinforced with external welded box section members.

Hydraulic power from the tractor operates the low pressure ram of the tipping gear. The ram operates in the centre of the lifting arm plates and converts the backward thrust into a true upward lift. This method ensures a smooth tip with absence of backward thrust on the hinge plate and hinge pivots. This compound leverage hoist works at a maximum pressure of 2,000 p.s.i. and gives a 60° deg. tip of the body ensuring



Morewear "Goose" 5-7 cu. yd. dumper

One of the features is the connection between the power unit and the tractor. This is a quick-release ball coupling which permits the dumper to be detached from the tractor in less than 90 seconds. A telescopic hydraulic jack is built into the base of the goose-neck, which is retracted when not in use, and when the dumper is to be uncoupled the jack is quickly lowered to support the front of the dumper. When the detached dumper is being loaded, additional support can be given by lowering two loading stands which are bolted to the main frame.

The goose-neck coupling on the tractor is beneath the driver's seat and its effective load is transferred to the tractor  $3\frac{1}{2}$  inches ahead of the rear wheel centres. A sheer test of 60 tons has successfully been carried out on the 3 in. diameter hardened steel ball coupling, towing hitch bridge, and the forged cup assembly of the goose-neck.

The heavy solid forged cup assembly, consisting of a 3 in. diameter precision machined cup with grease channels and greasing nipple, is full welded to a fabricated assembly which is bolted by high tensile steel bolts to the end of the goose-neck. The goose-neck is constructed of fully welded fabricated box section of  $\frac{1}{2}$  in. mild steel plate.

The dimensions and design of the goose-neck are such that exceptional manoeuvrability is achieved; over 100 deg. articulation each side can be obtained.

A fully welded main chassis frame to which the goose-neck is welded, is made up of 8 in. by 3 in. rolled steel channel and the body frame is of 6 in. by 3 in. rolled steel channel.

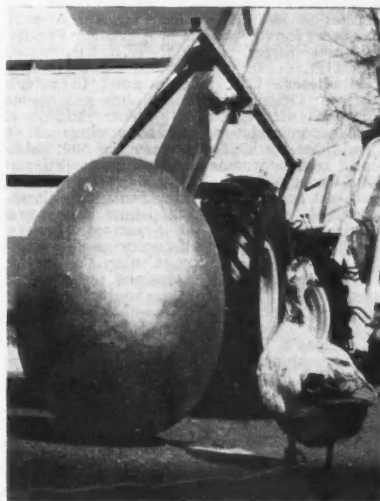
## Dumper Body

The dumper body has been designed to hold 5 to 7 cu. yd. or 8 to 10 tons. The floor is of  $\frac{1}{2}$  in. mild steel plate continuously welded to the sides and the

ejection of the stickiest materials. The control lever is situated adjacent to the driver's seat.

A 3 in. square high tensile steel axle beam gives the additional strength where it is most required. Brake drums are of 15 in. diameter with 3 in. wide expanding type brake shoes operated from a central pull compensator and are cable operated as standard equipment, 11,000 in. x 20 in. (14 ply) tyres are fitted as standard.

By the use of unit construction in the design of the dumper unit, all components can be removed without interfering with



GREAT EXPECTATIONS.—The "golden" egg seen at the demonstration which the organisers hope will be laid by the Morewear, if not by the goose looking on!

adjacent parts. The body which is hinged by  $1\frac{1}{2}$  in. steel pins, can be quickly removed from the chassis, and the hydraulic tipping assembly can be removed in less than two hours.

## Optional Extras

Optional extra equipment includes operator's cab, side extensions to the dumper body, rock body, oversize tyres, vacuum or air operated brakes and lighting equipment on the dumper, and the following items:

**Four-wheel Drive** on the Fordson power unit, which enables the "Goose" to operate with maximum pay load, over ground conditions which would normally be unworkable. A selector lever situated next to the gear lever gives instant change from four-wheel drive to two-wheel drive or vice versa. The front four-wheel drive is carried forward to the front axle through a torque clutch which automatically safeguards the front axle from overloading. Tyres supplied with the four-wheel drive are 9.00 in. x 24 in. (four ply).

**Smith Clam Gate Tailboard** which is automatically operated each time the body is raised and lowered. This device is particularly suitable when light materials such as coke or coal are being carried or when there is the possibility of spillage when travelling on the roads. The Smith Clam Gate can also be obtained with a watertight seal, an additional feature, for the carrying of slurry, water or concrete, and other semi fluids.

**Hydraulic Shovel Equipment** attached to the power unit is also available. This has a 1 cu. yd. capacity bucket which has a discharge height of approximately 10 ft. to the centre of the hinge pin.

**Conversion Kits** for the four-wheel drive transmission and the towing hitch bridge for the power unit are also made available by the manufacturers.

Prices at present being quoted are: basic two-wheel drive model £1,595; basic four-wheel drive £2,190.

## GAS TURBINE GENERATING SET

A new gas turbine generating set introduced by Perkins Gas Turbines Ltd., Peterborough, comprises a Perkins Mars turbine coupled to a D.C. generator by means of a Twiflex clutch coupling.

Excluding fuel tanks, the overall weight is approximately 875 lb. The gas turbine is supported in its own frame and is hand started by means of a single hand crank. Engine acceleration is automatic after cranking to an output speed of approximately 1,000 r.p.m., the fuel valve having been turned on at a speed of 500 r.p.m.

The clutch enables the inertia of the generator to be out of engagement during the hand cranking and during subsequent acceleration up to an output speed of about 2,700 r.p.m. At this speed the clutch engages and the engine and generator further accelerate automatically to rated speed of 4,400 r.p.m.

The direct current generator is by Lancashire Dynamo and Crypto Ltd., and is continuously rated to give an output of 30-kW. at 220 volts. The machine is of standard screen protected drip proof construction. Apart from being provided with a high speed type commutator and special armature banding, it is of normal construction.

● Trade and Company News continues on page 173. Subsequent articles include Talking of Safety, by "Dragee" (p. 176), Pressure on Demand for Labour has been Rising Again (p. 177), Commercial and Holiday Traffic Bottleneck Goes (p. 179), and International Construction (p. 181).



# Current Constructional Activities

## PROJECTS

## CONTRACTS

## AWARDS

**THIS** editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

### BUILDING AND DECORATING (See also Housing Schemes)

**Acton, Middx.**—C.C. recommended to approve the erection of a 10-place extension at, and improvements to, Longcot Day Nursery. Estimated cost £6,560.

**Alexandria, Dunbarton.**—J. L. Gleave, 21 Woodside Place, Glasgow, C.3, is the architect for an 80-bed maternity hospital to be erected adjoining the present Vale of Leven Hospital for the Board of Management for Dunbartonshire Hospitals.

**Barrow-in-Furness, Lancs.**—B.C. recommended to appoint Poole and Dick, 3 Chepstow Street, Manchester, 1, as quantity surveyors for the new premises of the county technical school for boys.

**Bolton, Lancs.**—B.C. recommended to approve plans, for submission to the M.E., for the proposed Deane C. of E. Primary School; to apply for sanction to borrow £4,300 for phase VIII of re-roofing at the Castle Hill Schools.

**Carmarthen.**—B.C. recommended to approve scheme to demolish the existing municipal buildings and the old Borough Police Station in Cambrian Place, and erect completely new buildings designed to accommodate additional staff.

**Croydon, Surrey.**—Outline planning approval has been granted for the erection of offices at 11 and 15 Dingwall Avenue. Architect for the scheme is W. H. Robbins, 77 Wigmore Street, London, W.1. Estimated cost £90,000.

**Dagenham, Essex.**—B.C. recommended to prepare sketch plans for the Heath Park Hall extension, estimated cost £2,500; appoint Harris Rourke and Simpson, 26 Soho Square, London, W.1, as quantity surveyors for conversion of kitchen at Valence Primary School.

Local Education Authority have approved the provision of wing or separate building, comprising common room, coffee bar, kitchen, store, three activity rooms, warden's office, cloakrooms and circulation at Marley Youth Centre for B.C. Estimated cost £15,000.

**Doncaster, Yorks.**—B.C. recommended to approve in principle, scheme for the erection of Civil Defence headquarters and control centre at Union Street. Estimated cost £23,000.

**Eastcote, Middx.**—C.C. recommended to approve improvements and redecoration at Highgrove House. Estimated cost £6,000.

**Essex.**—Co. E.C. to submit to M.E. for approval sketch plans for the proposed Waterhouse Moor County Infants' School, Harlow. Estimated cost £52,143.

**Feltham, Middx.**—C.C. recommended to approve erection of a home for aged persons at Spring Road. Estimated cost £83,540.

**Fleetwood, Lancs.**—Commercial and General Investments (Fleetwood), Ltd., propose the conversion of a cinema in Lord Street into a supermarket and a shop. Whitaker, Gardner and Lees, 16 Edward Street, Blackpool, are the architects, and C. R. Wheeler and Partners, 8 Symons Street, Sloane Square, London, S.W.1, are the quantity surveyors for the scheme, which is at planning stage. Estimated cost £25,000.

**Flintshire.**—Co. E.C. propose the erection of a new county primary school at Brynford. Estimated cost £15,000.

**Gateshead, Dur.**—Laws Stores, Ltd., Hawks Road, propose supermarket at Durham Road, Low Fell. The architects are Mauchlen Weightman and Elphick, 12 Saville Row, Newcastle upon Tyne; British Transport Commission, London, N.W.1, are to erect a three-storey office block with car park at Park Lane. Plans have been prepared by the Estates and

Rating Surveyor, British Railways, North-Eastern Region, York.

**Glastonbury, Som.**—B.C. recommended to approve plans for future development of factory at Beckery New Road for A. Bailly and Co., Ltd.

**Greenhithe, Kent.**—Tenders are now being invited from selected contractors for the erection of a large extension to the sally at the Empire Paper Mills. Plans are by the company's own staff, and the quantity surveyors are D. R. Nolans and Co., 14 Charterhouse Square, London, E.C.1.

**Hayes, Middx.**—C.C. recommended to approve adaptations at Mead House, Hayes Park as a rehabilitation unit for homeless families. Estimated cost £19,130.

**Hendon, Middx.**—C.C. recommended to approve the erection of a clinic on a site to be obtained in Claremont Road. Estimated cost £9,355.

**Hexham, Northumb.**—Plans approved for reconstructing garage at Priestpope for George and Jobling, Ltd. No contracts let. The architects are W. Dixon and Son, 1 Collingwood Street, Newcastle upon Tyne.

**Hornsey, Middx.**—C.C. recommended to approve, subject to planning permission being obtained, for the erection of a fire station at the junction of Priory Road/Park Avenue South. Estimated cost £55,380.

**Leeds.**—Ministry have approved City Council's scheme for the extension of the passenger and baggage hall at the Airport.

City Council recommended to obtain tenders for the erection of library premises at Seacroft Civic Centre; prepare plans for new offices at Kendell Street cleansing depot; approve in principle sketch plans for the extension of the Civic Hall; submit to Ministry for approval sketch plans for proposed maternity and child welfare clinics at Seacroft and Burmantofts health centre site; invite tenders from selected contractors for the erection of the East Leeds Hostel for Women.

**Machynlleth, Monts.**—U.D.C. to proceed with plan for the erection of a new town hall on land at Plas Machynlleth.

**Middlesbrough, Yorks.**—A new pavilion is to be built at Acklam Park for Middlesbrough Cricket and Rugby Club, and the architects are Elder and Lester, 65 Albert Road. Estimated cost £9,000.

**Middlesbrough, Yorks.**—W. B. Robinson and Co., Ltd., North-East Slateworks, North Road, have approached the B.C. regarding a site for new industrial premises, and the Corporation has offered to lease 3,000 sq. yd. in the Lloyd Street light industrial area.

Outline plans have been approved for the erection of three-storey offices at 55-57 Albert Road for the Temperance Permanent Building Society, 65 Albert Road.

**Middlesex.**—Corob Holdings, Ltd., have been granted outline planning permission for erection of a two-storey hotel with swimming pool, tennis courts and motel rooms and garages at Bath Road, near London Airport. Architect for the scheme is Alexander Flinder, Wimpole Street, London, W.1. Estimated cost £1m.

**Middlesex.**—C.C. recommended to submit to Home Office following building programme for 1961/62: Children's homes—additional staff accommodation and adaptations at 40 Cambridge Park, Twickenham, £6,600; additional staff bedrooms and washing facilities at Elfin Grove Nursery, Ealing, £3,014; additional staff bedrooms and washing facilities, enlargement of nurses' dining/sitting room and children's washroom at Stanmore Nursery, £4,800; additional staff accommodation at The General Reception Centre, Willesden, £11,190; repairs and extensions to outbuildings at Mill Hall Hostel, Southall, £2,000; approved schools—erection of new remand home for girls, Harlington Road, to replace St. Helena's, £75,000.

C.C. recommended to approve partitioning and other works at proposed new Central Office accommodation at Egginton House, 25-8 Buckingham Gate, London, S.W.1. Estimated cost £3,690.

**Newburn, Northumb.**—Plans have been approved for R.C. secondary school at Hill Head Road, Westerhope, for C.C. The county architect is C. C. Brown, 30 Great North Road, Newcastle upon Tyne.

**Newcastle upon Tyne.**—Housing Committee have approved the erection of a community hall and four shops on the Newbiggin Hall estate. The city architect is G. Kenyon, 18

Cloth Market, Newcastle; plans have been prepared by E. H. Ormshaw, Building Advisory Department, Upper Charlton Road, Manchester, 16, for the erection of wallpaper stores in Clayton Street for Wallpaper Stores, Ltd.

**Oswestry, Salop.**—Bartlett and Gray, 16 Bridgford Road, West Bridgford, Notts., are the architects for the erection of a retail store on site of the Osborne Hotel, Bailey Street, for Ceres Investments, Ltd.

**Peterlee, Durham.**—Quantities are being prepared by the Corporation's quantity surveyors' department for the erection of a four-storey office block and five two-storey shops in the town centre. The architects are W. H. Williamson and Partners, 7 St. Mary's Place, Newcastle upon Tyne.

**Poplar.**—B.C. have approved outline proposals for a public convenience at Sutherland Road. The architects are Burley and Moore, 35 Highbury Place, London, N.5.

**Reading, Berks.**—B.C. recommended to invite tenders, subject to Ministry approval, and appoint R. E. Unsworth, 25 Queen Victoria Street, Reading, as the quantity surveyor for the erection of an aged persons' home at Granville Road, Southcoate estate, estimated cost £71,500; invite tenders for the construction of a garage block and alterations to the existing garage block at the highways depot, £6,500.

**Rochester, Kent.**—Work is expected to commence within one month on the erection of an indoor sports stadium at Buckmore Park for the Medway West District Association. Derek Buckler and Partner, 14 Manor Road, Chatham, are the architects for the scheme. Estimated cost £10,000. Contractors not yet decided.

**St. Pancras.**—B.C. recommended to appoint Waggett and Bradford, 25 Victoria Street, London, S.W.1, as the quantity surveyors for modernisation of 84 flats at Flaxman Terrace. Estimated cost £67,200.

**Sheffield.**—City Council recommended to appoint W. J. and C. P. Bates, Midland Bank Chambers, Newcastle-under-Lyme, Staffs., as consulting and mining engineers, to advise on structural precautions necessary due to presence of old mine workings, at the College of Technology; Gollins, Melvin, Ward and Partners, 281 Glossop Road, as architects, for designing and supervising the construction of new entrance to Weston Park on its Winter Street frontage.

**Southall, Middx.**—C.C. recommended to purchase land at The Cedars, Tentlow Lane as site for erection of an old persons' home.

**South Shields, Dur.**—B.C. have appointed Page, Son and Hill, 75 King Street, and J. S. Glover, 13 Winchester Street, as architects and quantity surveyors, respectively, for additions to Harton Junior School; considering the erection of three youth clubs at Simonside, Horsley Hill and Biddick Hall; final plans are to be prepared for the proposed St. Oswald's R.C. primary school. The architects are Page, Son and Hill, 75 King Street.

**Sunderland, Dur.**—Highways Committee have approved proposals by Irving Smith, builder, Canberra Road, to erect light industrial factory premises at Henry Street East. The building will be 340ft. long and 75ft. wide and will be sub-divided into smaller factory units, estimated cost £30,000; plans are being considered for R.C. primary school at South Hylton for the Diocese of Hexham and Newcastle, Bishop House, East Denton, Newcastle upon Tyne, and the architects are Stienlet and Son, Queen Square, Newcastle upon Tyne.

**Totnes, Devon.**—B.C. recommended to prepare scheme for the erection of garages on spare ground at various housing estates.

**Tynemouth, Northumb.**—Plans have been prepared for a sports pavilion at Preston Road, North Shields, for North Shields A.F.C. Plans are by A. V. Harwood, Borough Engineer's Department, 16 Northumberland Square, North Shields; J. Appleby, Ltd., and Lindsay Brothers are to reconstruct their fish merchants' premises on North Shields Fish Quay; B.C. have approved sketch plans by John Smeds, architect, 56a Camden Street, North Shields, for the erection of 10 maisonnettes and eight bedsitters at Borough Road and Railway Terrace, North Shields.

**Wandsworth.**—B.C. recommended to appoint Clarence E. Smart and Partners, 42 Theobalds Road, London, W.C.1, as the quantity surveyors for adaptation of 54 Clarence Avenue as accommodation for elderly persons. Estimated cost £7,150.



**Wandsworth.**—B.C. recommended to appoint Mr. J. Hewitt Mitchell, A.R.I.B.A., 140 Streatham Hill, London, S.W.2, as the architect for a public convenience, street cleansing sub-depot and car park at Leigham Court Road.

**Wanstead and Woodford, Essex.**—Ministry have approved B.C.'s scheme for the erection of a second storey to the existing foyer at Sir James Hawkey Hall, Woodford Green. Estimated cost £10,000.

**Wembley, Middx.**—C.C. recommended to approve adaptations at the Fire Brigade headquarters. Estimated cost £2,000.

**West Hartlepool, Dur.**—Tenders are being obtained for proposed additions to St. Luke's Church. The architects are Cordingley and McIntyre, Owengate, Durham City.

**Wigton, Cumb.**—R.D.C. to proceed with scheme for slaughterhouse at Water Street. The Council's surveyor is W. H. D. Summers.

**Wimborne and Cranborne, Dorset.**—A. W. Lambert, Dudsbury Manor, Longham, Wimborne, has submitted to R.D.C. for approval plans for the erection of a hotel at West Parley. Estimated cost £50,000.

**Woolwich.**—B.C. recommended to erect a public convenience at Sandy Hill Road frontage of Woolwich New Road car park. Estimated cost £1,850.

**Yeading, Middx.**—C.C. recommended to approve, subject to Home Office approval, scheme for extensions to the training facilities at the combined exercise ground. Estimated cost £2,200.

#### DEMOLITION

**Hendon, Middx.**—C.C. recommended to approve, subject to Home Office approval, for the demolition of air-raid shelters and conveniences at the Burroughs playing field. Estimated cost £1,605.

#### ELECTRICAL

**Reading, Berks.**—B.C. recommended to submit to M.T. for approval scheme for the installation of traffic lights at the junction of Liebenroad Road with Bath Road.

#### GAS AND WATER SUPPLY

**Barrow-in-Furness, Lancs.**—Ministry have approved in principle scheme for the reconstruction of Sandgate Pumping Station.

**Chichester, Sussex.**—City Council recommended to apply for sanction to borrow £3,476 for the construction of an 8in. link main from Broyle Road to Spitalfield Lane.

**Peterborough.**—City Council recommended to approve schemes for provision of 4in. mains to serve existing and future development along Gunthorpe Road frontage, and provision of 12in. main from existing trunk main to most convenient point along Gunthorpe Road to serve any future development of area. Estimated cost £7,548.

**Radnorshire.**—C.C. recommended to submit to Ministry for approval water supply scheme for Newbridge - on - Wye, Llanyre and Llanfihangel Helygen, estimated cost £47,000, and the Rhayader water supply improvement scheme, estimated cost £33,520.

**Rhyl, Flint.**—U.D.C. recommended to apply for sanction to borrow £18,240 in connection with the provision of water mains necessary for domestic supplies.

**Glastonbury, Som.**—B.C. recommended to prepare revised sketch plans for housing development along the west side of Monington Road.

#### HEATING AND VENTILATING

**Barrow-in-Furness, Lancs.**—B.C. recommended to appoint Hoare, Lea and Partners, Shewstone House, Upper Park Road, Manchester, 7, as central heating consultants for the new premises of the County Technical School for Boys.

**Guildford, Surrey.**—B.C. recommended to apply for sanction to borrow £4,000 for a further stage in the installation of hot water systems in pre-war houses.

**Sheffield.**—City Council recommended to appoint E. A. Pearce and Partners 28 Baker Street, London, W.1, as consulting engineers, for the mechanical and engineering services for the Shirecliffe District College of Further Education.

#### HOUSING SCHEMES

**Bexley, Kent.**—B.C. have approved scheme for the erection of a 5-storey block of flats at East Wickham Estate, section 3.

**Congleton, Ches.**—B.C. recommended to approve the erection of 20 flatlets for old people, on a site at Dane Street, with a warden's flat, a communal room and accommodation for visitors.

**Epsom and Ewell, Surrey.**—B.C. recommended to invite tenders from selected contractors for erection of 6 flats at The

Kingsway, Ewell, 12 maisonnettes at Ruxley Lane and 6 houses at the junction of Longmead/Chessington Roads, West Ewell.

**Leeds.**—City Council recommended to approve layout plans for the erection of 338 dwellings and 242 garages on temporary site at Belle Isle.

**Loughborough, Leics.**—B.C. recommended to approve, subject to C.C. approval, scheme for residential development at Old Knightthorpe Hall.

Town Planning Committee have approved, subject to conditions, scheme for residential development at Parks Farm estate for William Davis and Co. (Leicester), Ltd., Forest Road, Loughborough.

**Newbigin, Northumb.**—Plans have been prepared by C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne, for the erection of 37 houses at North Seaton Village.

**Newbury, Berks.**—Town Planning committee have approved scheme for the erection of 20 flats and lock-up garages at Link Road, for Dolphin Development Co., Ltd., Duncan House, Dolphin Square, London, S.W.1.

**Reading, Berks.**—B.C. recommended to invite tenders, subject to Ministry approval, for the erection of two midwives' flats with district room and two garages at Wensley Road, Coley Park estate, estimated cost £6,032, and four midwives' flats with two district rooms and four garages at The Mount, Caversham, £10,914.

Town Planning Committee have approved, subject to conditions, detailed plans for the erection of 31 houses on land between Gordon Place and Little Johns Lane for J. West (Builders), Ltd., Calcot Works, Bath Road, Reading; outline application for flats, maisonnettes and garages on the site of the Old Kennels, Burghfield Road, for J. M. Jones and Sons (Builders), Ltd., Highway Works, Maidenhead.

**Sheffield.**—City Council recommended to approve layout plans for the development of the Bramwell Street area within the Netherthorpe redevelopment area, comprising sites for 82 maisonnettes and four lock-up shops; appoint as quantity surveyors Messrs. Gleeds, 35 Glossop Road, for the erection of 407 dwellings at Middlewood development, Grimswade and Ainsley, Imperial Buildings, Rotherham, for 80 dwellings at Gleadless Valley development, and R. S. Caulton and Co., Paradise House, Paradise Street, for conversion of former wash-houses to seven flats at Duke Street flats.

**Stockton-on-Tees, Dur.**—B.C. to invite tenders for the erection of old people's flatlets on the Hardwick housing site. Estimated cost £34,000.

**Watford, Herts.**—B.C. recommended to approve revised draft layout for the erection of 56 houses and 12 flats at Holywell estate.

**Whitley Bay, Northumb.**—Waring and Netts, architects, 36 Jesmond Road, Newcastle upon Tyne have prepared outline plans for the erection of houses at Rocky Island, and for the erection of flats, garage, car park, and extensions to public house at West Terrace, Seaton Sluice.

#### PLAYING FIELDS, PARKS, ETC.

**Leeds.**—City Council recommended to approve the provision of a children's play area on land at New Carlton.

**Sheffield.**—City Council recommended to appoint Hadfield, Cawkwell and Davidson, 17 Broomgrove Road, as architects, and Holdsworth and Cousins, 49 Spring Hill Road, as quantity surveyors, in connection with the laying out of the playing fields at St. Paul's R.C. School.

#### ROADS, BRIDGES AND SITE WORKS

**Doncaster, Yorks.**—B.C. recommended to apply for sanction to borrow £23,000 for the making up of Bridge Road, Moorland Grove (part), Princes Road, St. Augustine's Road, St. George's Road, and The Avenue.

**Ealing, Middx.**—C.C. recommended to approve, subject to grant aid, scheme for the construction of a roundabout at the junction of Ruislip/Lady Margaret/Kensington Roads, Greenford. Estimated cost £25,000.

**Epsom and Ewell, Surrey.**—B.C. recommended to invite tenders for private street works in Cottage Road and part of Poole Road, West Ewell.

B.C. recommended to approve the making-up of Huntsmoor Road, Ewell, and part of Salisbury Road, Worcester Park. Estimated cost £1,809 and £6,935, respectively.

**Folkestone, Kent.**—B.C. recommended to apply for sanction to borrow £2,250 for the making up of Chichester Road (part) and Eversley Way (part).

**Hammersmith.**—B.C. recommended to seek Ministry of Transport approval for widening of Wood Lane to provide two traffic lanes in each direction and widening of Ducane Road adjacent to the junction to provide an

additional traffic lane, with provision of traffic control signals. Estimated cost £14,770.

**Harrow, Middx.**—C.C. recommended to approve, subject to grant aid, scheme for alterations to improve traffic conditions at the junction of Pinner/Station Roads, North Harrow. Estimated cost £15,000.

**Limerick, Eire.**—C.C. propose to realign the Ballinacurra-St. Nessan's Road. Estimated cost £40,000.

**Mitcham, Surrey.**—Co. Planning Committee have approved plans for demolition of existing bridges and construction of Bailey Bridge over River Wandie, including diversion of access way at Phipps Bridge Road near Homefield Gardens, for B.C.

**Reading, Berks.**—B.C. recommended to submit to M.T. for grant aid, scheme for the improvement of Cemetery Junction. Estimated cost £5,075.

**Whitley Bay, Northumb.**—B.C. is to let contract for the reconstruction, in reinforced concrete, of North Parade, Holywell Avenue and Queens Road. The Borough Engineer is E. Roberts.

**Woolwich.**—B.C. recommended, subject to grant approval, to undertake modification of the junction of Eltham High Street, Bexley Road and Southend Crescent. Estimated cost £10,000.

**Worthing, Sussex.**—B.C. recommended to approve layout plans for the improvement of the junction of Furze Road and Honeysuckle Lane with Salvington Hill, and the widening of the junction of Stoke Abbott Road with Christchurch Road.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Belford, Northumb.**—R.D.C. seeking Ministry permission to proceed with sewage disposal scheme. Estimated cost £6,000.

**Bromley, Kent.**—B.C. recommended to approve working drawings and invite tenders for the construction of relief surface water sewerage works from Widmore Green to the main watercourse culvert passing through the grounds of Bromley Grammar School for Girls, estimated cost £15,425 and relief surface water sewers at Kynaston Road from Powster Road to Burnt Ash Lane and Burnt Ash Lane from Kynaston Road to New Street Hill, £5,223.

**Leeds.**—City Council recommended to approve the laying of a new length of sewer at Sweet Street light industrial estate. Estimated cost £1,600.

**Ogwen, Caerns.**—R.D.C. have provisionally approved a sewerage and sewage disposal scheme for the village of Aber, to serve about eighty properties, including a primary school, places of worship and two hotels. Estimated cost £28,000.

**Weardale, Dur.**—R.D.C. propose sewage works at Frosterley. No contracts let.

#### STREET LIGHTING

**Ashburton, Devon.**—U.D.C. have approved scheme to convert public street lighting from gas to electricity. There will be 121 vapour-type lamps attached to brackets and metal standards.

**Bromley, Kent.**—B.C. recommended to approve the 1961-62 street lighting programme comprising further improvement of side street lighting and conversion of group B colour corrected mercury lighting to group A sodium lighting on through traffic roads. Estimated cost £37,630.

**Duffield, Derbys.**—Parish Council to apply for sanction to borrow £4,538 for the installation of class A lighting along 1½ miles of the trunk road.

**High Wycombe, Bucks.**—B.C. recommended to apply for sanction to borrow £11,000 for the provision of improved street lighting at the following roads: Desborough Road, Green Street and Dashwood Avenue, Totteridge Road, Bowerdean Road and Gordon Road between Amersham Road and the Trunk Road A.40, Abbey Barn Road, Priory Road, Priory Avenue and Kingshill Road.

**Manchester.**—City Council recommended to approve scheme for the renewal of street lighting on housing estates for the year 1961-62 in the Middleton Road area, the Sutton estate, Gorton, and the Wilbraham estate, Fallowfield, and in Crescent Road, Crumpsall, Hazelbottom Road, Crumpsall, Woodlands Road, Crumpsall, and Church Lane, Moston.

**Newbury, Berks.**—B.C. recommended to apply for sanction to borrow £34,480 and invite tenders in due course for the conversion of all gas street lamps into electricity.

**Reading, Berks.**—B.C. recommended to approve scheme for the conversion from gas to electricity of lighting in eight streets during 1961-62. Estimated cost £4,990.

**Tunbridge Wells, Kent.**—B.C. recommended to apply for sanction to borrow £2,783 and invite tenders for the improvement of the street lighting at Lansdowne Road and Sandrock Road.



## CONTRACTS

Full details of the Contracts marked \* will be found in our Advertisement Columns.

### BUILDING AND DECORATING (See also Housing Schemes)

**Aberdeen.**—Execution of the painter work at 90 houses, Balnagask Road scheme, section 1, for City Council. Applications in writing to the City Architect, 11 Broad Street, Aberdeen. Tenders by April 18.

**Aireborough, Yorks.**—External painting of steel cladding, etc., of 48 b.i.s.f. houses at Haw Lane and Hawthorn Road, Yeadon, for U.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, Micklefield House, Rawdon, Leeds. Deposit £2 2s. Tenders by April 24.

**Ashby-de-la-Zouch, Leics.**—Conversion of a house at Brook Street into two self-contained flats for U.D.C. Documents from Pick, Everard, Key and Gimson, chartered architects, 6 Millstone Lane, Leicester. Deposit £2 2s. Tenders by April 24.

**Ashford, Kent.**—Following works for U.D.C.: (a) Re-roofing to Council houses; (b) external painting of Council houses. Documents from the Surveyor, 1 Elwick Road, Ashford. Tenders by April 20.

**Batley, Yorks.**—External painting of the Batley Grammar School for Governors. Documents from Secretary to the Governors, Education Office, Morley. Tenders by April 18.

**Batley, Yorks.**—External painting of 168 flats and maisonnettes on the Staincliffe estate for B.C. Documents from the Borough Engineer, West House, Hanover Street, Batley. Tenders by April 18.

**Belfast.**—Following for City Council: (a) Complete electrical installation at Tower Street Institute for Further Education; (b) construction of athletic facilities at Ballygomartin Boys' Secondary School; (c) redecoration work, viz., redecoration of various city schools, school meals kitchens, dining centres, etc.; and (d) supply and fitting of roller shutters at Smithfield Market. Documents from City Architect's Department, 40 Academy Street, Belfast, 1. Tenders by May 4 for (a) to (c), and April 19 for (d).

**Belfast.**—Erection of primary school for 560 pupils at New Barnsley Park, Ballymurphy, in traditional construction of double and single storeys for City Council. Documents from City Architect's Department, 40 Academy Street, Belfast, 1. Deposit £5, cheques payable to Corporation. Tenders by May 4.

**Bentley-with-Arksey, Yorks.**—Erection of 10 garages at Castle Hills Road, Scawthorpe, and incidental work in connection therewith (contract 101) for U.D.C. Documents from R. N. Penlington, engineer, Council Offices, Cooke Street, Bentley. Deposit £1 1s. Tenders by April 25.

**Boldon, Dur.**—Exterior painting of houses as follows for U.D.C.: 441 at Whitburn; 190 at West Boldon. Documents from J. T. Edmondson, surveyor, Council Offices, East Boldon. Tenders by April 25.

**Bournemouth, Hants.**—Conversion of Beaufort House, 1 Beaufort Road, Southbourne, to form a health home for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £2 2s. Tenders by April 22.

**Bournemouth, Hants.**—Internal and external redecoration at one or more of the following schools for B.C.: Internal redecoration (contract P.69) Malmesbury Park C.P. School; (P.70) South Kinson Infants' School; (P.71) South Kinson Junior School; (P.72) Stourfield Junior School; (P.74) West Howe Infants' and Junior School; (P.76) St. Andrew's School; (P.77) St. Walburgas School; (M.7) Malmesbury Park C.P. School, meals centre; (M.8) East Howe Girls' Secondary School, meals centre; (F.15) Municipal College. Internal and external redecoration (P.66) East Howe Infants' School; (P.67) East Howe Junior School; (P.68) Hill View Infants' and Junior School; (P.73) Summerbee Infants' School; (P.75) Winton and Moordown Junior School; (S.50) East Howe Secondary School; (S.51) Oakmaid School for Boys; (S.52) Summerbee Secondary School; (S.53) Stourfield Secondary School. External redecoration (F.14) Shelley Park. Documents from Borough Architect, Room 106, Town Hall, Bournemouth. Deposit £2 2s. Tenders by May 6.

**Bournemouth, Hants.**—Erection of a staff room extension at Bournemouth School, East Way, for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 1s. Tenders by May 5.

**Brentford and Chiswick, Middx.**—List of approved contractors' building work for B.C.: (a) up to £15,000 in value; (b) from £15,000 to £25,000 in value; (c) from £25,000 to £50,000 in value; and (d) over £50,000 in value. Applications to the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4, by April 15. Applicants must forward particulars

of contracts recently executed and indicate the range of work for which they wish to be considered.

**Brighouse, Yorks.**—Erection of greenhouse foundations, ancillary buildings complete, and the construction of roads in connection with the erection of 12,000 sq. ft. of greenhouses, for B.C. Documents from the Borough Engineer, Commercial Street, Brighouse. Deposit £1. Tenders by April 28.

**Brighouse, Yorks.**—Erection of public conveniences, Towngate, Clifton, for B.C. Documents from the Borough Engineer, Commercial Street, Brighouse. Deposit £1. Tenders by April 28.

**Bury, Lancs.**—Top o' th' Hill Farm: Replacement of fire-damaged roof by steel roof trusses, asbestos cladding, and sundry builder's work for B.C. Documents from Borough Surveyor, Town Hall, Bury. Tenders by April 26.

**Cardiff.**—External painting and repair works to dwellings as follows for R.D.C.: (Site 1) Bonvilston and Pendoylan (32); (2) Rhose (76); (3) Pentyrch and Creiglau (68); (4) Dinas Powis (48); (5) Porset Van (10); (6) Velindre, Whitchurch (80); (7) Rhiwbina, Whitchurch (32); (8) Tongwynlais (72). Documents from S. P. Youldon, engineer and surveyor, 20 Park Place, Cardiff. Deposit £3 3s. each. Tenders by April 18.

**Cardiff.**—Erection of a new aged persons' home at Newborough Avenue, Llanishen, for City Council, comprising a two-storey building of traditional construction to provide accommodation for 42 persons. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. Tenders by April 27.

**Cardiff.**—Structural steelwork for county primary school for City Council. Deposit £2 2s. Tenders by May 5.

**Chigwell, Essex.**—Painting of Council offices and various buildings to the value of about £2,000, for U.D.C. Documents from Engineer and Surveyor, Old Station Road, Loughton. Deposit £2 2s. Tenders by April 21.

**Chigwell, Essex.**—Reconstruction of pumping station, Bradwell Road, for U.D.C. Documents from Engineer and Surveyor, Old Station Road, Loughton. Deposit £2 2s. Tenders by April 21.

**Chorley, Lancs.**—Modernisation and extension to conveniences at general market for B.C. Documents from the Borough Engineer's Office, Town Hall, Chorley. Deposit £2 2s. Tenders by April 27.

**Chorley, Lancs.**—Repair and improvement of nine small terrace type houses in Grime Street for B.C. Documents from the offices of Bramley and Pate, architects, Dowry House, Bamber Bridge, near Preston. Deposit £2 2s. cheque. Tenders by May 1.

**Clitheroe, Lancs.**—Exterior painting of 38 houses at Chaburn, and the Council Offices, Church Brow, for R.D.C. Applications to the Surveyor, Clitheroe Rural District Council Offices, Church Brow, Clitheroe. Tenders by April 29.

**Colne, Lancs.**—Following for Colne and District Co-operative Society, Ltd.: (1) Painting the external wood and iron work on the front elevation (Albert Road) and the end elevation (Linden Road) of the Society's central premises. The front elevation to include all wood and iron work and plaster ceilings in the central arcade. (2) The pointing of all the stone work on the end elevation (Linden Road) of the central premises, including the angle of the building on the Linden Road/Albert Road corner. Documents from The Secretary, Colne and District Co-operative Society, Ltd., Colne Hall, Colne. Tenders by April 29.

**Consett, Dur.**—External painting and internal decoration at St. Aidan's Hall, Blackhill, for U.D.C. Documents from the Surveyor, Council Offices, Medomsley Road, Consett. Tenders by April 24.

**Cookham, Berks.**—External redecoration and ancillary repairs to 10 to 18 Woodland Cottages, Whyteladies Lane, Cookham Rise, for R.D.C. Documents from A. Mandeville, engineer and surveyor, Council Offices, Oaklands, 1 Bath Road, Maidenhead. Deposit £2 2s. Tenders by May 18.

**Cosford, Suffolk.**—House improvements at 1-10 Crowcroft Road, Neding-with-Naughton, for R.D.C. The works include the addition of bathrooms, the conversion of closets, the provision of hot water systems and other minor works, together with siteworks. Documents from Council Offices, 32 High Street, Hadleigh, near Ipswich. Tenders by April 20.

**Dartford, Kent.**—Construction of the following works at Dartford Tunnel, contract 9, for Ministry of Transport: (1) The construction of an administration block, including a main administration building, a canteen, workshops, stores, garages, service roads, car park; entailing the provision of drainage and services, piled foundations, reinforced concrete frame construction, and special finishing features; (2) liaison with, and attendance on, nominated sub-contractors and other con-

tractors for the installation of services; (3) ancillary works, including the construction of a public convenience, with sewage pumping plant and a rising main. Documents from Mott, Hay and Anderson, consulting engineers, 9 Idlesleigh House, Caxton Street, Westminster, London, S.W.1. Deposit £15, cheque payable to the Ministry. Tenders by May 17.

**Devizes, Wilts.**—External painting of 156 dwellings in the district for R.D.C. Documents from Surveyor, Browfort, Devizes. Tenders by May 5.

**Devonshire.**—Renovations at school premises during the summer holidays for C.C. Applications to County Architect, 97 Heavitree Road, Exeter, by May 3.

**Dewsbury, Yorks.**—Erection of new toilet accommodation at The Crow Nest Park Mansion for B.C. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 2.

**Droghda, Lancs.**—External painting of 124 Council flats on the Moorside estate for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Droghda. Tenders by April 15.

**Dublin, Eire.**—Rebuilding of Liberty Hall at Beresford Place/Eden Quay for The Irish Transport and General Workers' Union. Documents from Richard J. Bigger, quantity surveyor, 4 Upper Fitzwilliam Street, Dublin. Deposit £50. Plans also seen at the office of Desmond Rea O'Kelly, architect, 15 Fitzwilliam Square, Dublin. Tenders by May 1.

**Dulverton, Som.**—Improvements to four houses at Jury Road (scheme 3) for R.D.C. Documents from the office of the Public Health Inspector, Exmoor House, Dulverton. Tenders by April 24.

**East Grinstead, Sussex.**—Following for U.D.C.: (a) Partial demolition and re-erection of brick-built garage to provide a seven-bay building, 86ft. by 25ft. 6in. overall, and ancillary works at Durkins Road Depot; (b) supply and erection of 30 Belcon-type prefabricated concrete garages, including floor slabs, drainage, access drive and paving, at Sackville Gardens (20) and Allens Close (10). Documents from B. J. Cornelius, surveyor, Council Offices, East Court, East Grinstead. Deposit £2 2s. each, payable to U.D.C. Tenders by April 19.

**Easthampstead, Berks.**—External painting of the following for R.D.C.: (Contract 1) 20 Swedish timber houses (exterior cladding completely in timber), comprising four houses and 16 bungalows; 2) nine bungalows, Forest Road, seven type G houses, York Road, four pairs type P houses, Red Rose Hill, and terrace of three (cottage homes), Rose Hill. Documents from the Engineer and Surveyor, Council Offices, Church Road, Bracknell. Deposit £2 2s. Tenders by April 24.

**East Sussex.**—Building a staircase and storage accommodation at Rye County Grammar School for C.C. Applications to County Architect, County Hall, Lewes, Sussex, by April 19.

**Elham, Kent.**—Erection of a public convenience at the car park, Lyminge, for R.D.C. Documents from John Bowdon, clerk of the Council, Council Offices, Lyminge, near Folkestone. Tenders by April 21.

**Gipping, Suffolk.**—Improvements to 20 houses at Claydon for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Needham Market, Ipswich. Deposit £2 2s. Tenders by April 24.

**Gipping, Suffolk.**—Installation of back boilers and fireplace surrounds in 68 Council houses at Barking, Bayham, Great Blakenham, Little Blakenham, Flowton, Offton, Somersham and Willisham, for R.D.C. Documents from Engineer and Surveyor, Council Offices, Needham Market, near Ipswich. Tenders by April 25.

**Havant and Waterloo, Hants.**—Erection of a committee room at the Town Hall for U.D.C. Documents from the offices of the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by April 17.

**Havant and Waterloo, Hants.**—Erection of a public convenience at South Street, Emsworth, for U.D.C. Documents from the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by April 17.

**Hebburn, Dur.**—Central area redevelopment sub-contracts for U.D.C. Deposit £3 3s. Tenders by May 9.

**Heston and Isleworth, Middx.**—Installation of wash basins in 74 houses for B.C. Tenders by May 1.

**Huntingdon.**—External painting of 73 houses and 12 lock-up garages for R.D.C. Documents from the Surveyor, Montagu House, Huntingdon. Tenders by May 11.

**Isle of Wight.**—Following for C.C.: (a) Annex at Inver House, Old People's Guest House, Foreland Road, Bembridge, floor area approximately 3,000 super. ft.; (b) timber poultry house at West Wight Secondary School, Freshwater. Applications to County Architect, County Hall, Newport,



f. of W., by April 21. Deposit £2 2s. for (a) and £1 1s. for (b), payable to C.C. Tenders by May 17 for (a), and May 24 for (b).

**\*Kettering, Northants.**—Changing rooms at Weekley Glebe playing field for B.C. Deposit £2 2s. Tenders by May 1.

**Kilkeel, Down.**—Demolition of existing church hall and erection of a new hall for the Session and Committee of Mourne Presbyterian Church. Applications to R. J. Love, 9 Shaftesbury Square, Belfast, 2. Deposit £5. Plans seen at the office of Smyth and Cowser, architects, 31 College Gardens, Belfast, 9. Tenders by April 28.

**Lancashire.**—Erection of a single-storey traditional-type office building at the L.C.C. Highways Depot, Riddings Lane, Whalley, for C.C. Documents from County Surveyor and bridgeworker, P.O. Box 9, Preston. Deposit £5. Tenders by April 19.

**Littleborough, Lancs.**—Following for U.D.C.: (1) External painting of the Council offices; (2) internal decoration of the Council offices. Documents from the Engineer and Surveyor, Council Offices, Littleborough. Tenders by April 22.

**Liverpool.**—Repairs to fire damage at Greystone Heath Approved School, Penketh, near Warrington, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by April 18.

**Londonderry.**—Following at St. Patrick's New Voluntary Secondary Intermediate School, Maghera, for Co. E.C.: (a) Erection and completion of new kitchen and dining hall; (b) supply and erection of steelwork. Documents from F. M. Corr and W. H. D. McCormick, architects, 7 Ferryquay Street, Derry. Deposit £26 5s. Tenders by May 16.

**Londonderry.**—Following at St. Patrick's New Voluntary Secondary Intermediate School, Maghera, for Reverend P. Monagle: (a) Erection and completion of new school; (b) supply and erection of steelwork. Documents from F. M. Corr and W. H. D. McCormick, architects, 7 Ferryquay Street, Derry. Deposit £26 5s. Tenders by May 16.

**Lurgan, Armagh.**—Following works in connection with the construction of a new church hall at Flush Place, Lurgan, for Shankill Parish Trustees: (1) Building work—the entire work of building and completing the church hall; (2) plumbing—complete internal plumbing to kitchen and lavatories; (3) electrical wiring—complete electrical wiring and heating installation. Documents from Thomas T. Houston and Partners, architects, 26 College Gardens, Belfast, 9. Deposit £3 3s. each. Tenders by May 1.

**Lutterworth, Leics.**—External painting of 214 houses situated in various parishes for R.D.C. Documents from Clerk of the Council, Council Offices, Lutterworth, Rugby. Tenders by May 2.

**Manchester.**—Roof and roof glazing repairs at Queens Park Art Gallery for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by April 28.

**Manchester.**—Supply and erection of structural steelwork for workshop extension at the Openshaw College for Further Education, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by April 27.

**Mexborough, Yorks.**—Cleaning down and repainting a pressed steel water tank (60,000-gallon capacity) and all structural steel and pipe work, situated off Elm Road, total height above ground level 80ft., for U.D.C. Documents from the Engineer and Surveyor, Waterworks Department, Council Offices, Adwick Road, Mexborough. Tenders by April 29.

**Mossley, Lancs.**—Following contracts for B.C.: (1) External painting of 109 Council houses; (2) external painting of two cemetery chapels, Town Hall and public conveniences. Documents from N. H. Bowdler, borough surveyor, Town Hall, Mossley. Tenders by April 24.

**\*Newcastle upon Tyne.**—Erection of garages for City Council. Tenders by April 26.

**Newton Abbot, Devon.**—External painting of 50 houses on the Buckland estate for U.D.C. Documents from the Surveyor, 18 Devon Square, Newton Abbot. Tenders by April 24.

**Northern Ireland.**—Following work in connection with the Blood Transfusion Service at the Belfast City Hospital for Hospitals Authority: (a) Building work; (b) mechanical services; (c) electrical services. Applications to the Secretary, Northern Ireland Hospitals Authority, 27 Adelaide Street, Belfast, 2, by April 15.

**North Riding.**—Internal painting at Clifton Without Primary School for Co. E.C. Documents from the County Architect, County Hall, Northallerton. Tenders by April 21.

**Nottingham.**—Construction of an additional three-classroom unit at Fairham Comprehensive

School, Clifton, for City Council. Documents from F. M. Little, city engineer and surveyor, Guildhall, Nottingham. Deposit £2. Tenders by April 28.

**Ossett, Yorks.**—Repainting of 278 houses in eight contracts for B.C. Documents from the Borough Surveyor's Department, Town Hall, Ossett. Tenders by April 24.

**Oswestry, Salop.**—External repainting of 122 houses situated in the undermentioned areas for R.D.C.: St. Martins, Moors Bank (46); St. Martins, New Ifton (10); Western Rhyn, Palmantmawr (42); Weston, The Meads (24). Documents from the Engineer, Council Offices, Castle View, Oswestry. Deposit £2 2s. Tenders by April 19.

**Peterborough.**—Erection of three brick garages, Welmore Road housing estate, Glington, for R.D.C. Documents from Council's Surveyor, 51 Priestgate, Peterborough. Tenders by May 2.

**Rhymney, Mon.**—Erection of a public convenience, bus shelter and tool shed at The Green, Abertyswg, for U.D.C. Documents from Council's Architect, Manor House, Bank Square, Chepstow. Tenders by April 26.

**Ripon, Yorks.**—External painting of 185 houses situated in Lead Lane, Holmefield, Aismunderby Road, Knaresborough Road and Princess Royal Road for City Council. Documents from the City Engineer's Department, Low St. Agnesgate, Ripon. Deposit £2 2s. Tenders by April 21.

**St. Albans, Herts.**—Modernisation of 96 houses at Townsend in four separate contracts for City Council, including A—32 houses, B—16 houses, C—28 houses, D—20 houses. Documents from the City Engineer and Surveyor, 16 St. Peter's Street, St. Albans, Herts. Tenders by April 29.

**Southampton.**—Erection of Hightown secondary school (810 places) for B.C. Written applications to Borough Architect, Civic Centre, Southampton, by April 15. Tenders by May 29.

**Strabane, Tyrone.**—Extension and alterations to the Head Post Office at Strabane for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £2. Plans also seen at Ministry of Labour and National Insurance Local Office, The Old Rectory, Newtown Street, Strabane. Tenders by April 28.

**Strood, Kent.**—External repainting of 430 dwellings and 116 garages in the districts as follows, for R.D.C.: (group a) Grain and Allhallows area—140 dwellings and 56 garages; (b) Stoke and Hoo area—118 dwellings and 39 garages; (c) Wainscott, Cliffe and Higham area—150 dwellings and 19 garages; (d) Hoo, Halling and Higham area—22 prefabricated bungalows and two garages. Applications to the Engineer and Surveyor, Council Offices, Frindsbury Hill, Strood. Deposit £2 2s. Tenders by April 26.

**\*Surbiton, Surrey.**—Internal reconstruction at Assembly Rooms for B.C. Tenders by April 28.

**Tadcaster, Yorks.**—Erection of five brick garages at Grange Avenue for R.D.C., internal size 16ft. by 8ft. Documents from the Engineer and Surveyor, Council Offices, Tadcaster. Deposit £1. Tenders by April 29.

**Tenterden, Kent.**—Roofing repairs and other ancillary work to be carried out at The Pebbles for B.C. Documents from R. J. Nichols, borough surveyor, Town Hall, Tenterden. Deposit £2 2s. Tenders by April 27.

**Thingoe, Suffolk.**—Repainting of houses and bungalows, as follows, for R.D.C.: Bardwell, 17; Barningham, 40; Barrow, 20; Euston, three; Hepworth, eight; Hopton, 12; Ixworth, 17; Pakenham, six; Risby, 19. Documents from the Engineer and Surveyor, 1 Northgate Street, Bury St. Edmunds. Tenders by April 26.

**Totnes, Devon.**—Construction of a livestock market and all ancillary works for B.C. Documents from the office of Joseph W. Smith, borough engineer, Municipal Offices, Totnes. Deposit £5 5s. Tenders by April 21.

**Truro, Corn.**—Following for R.D.C.: (1) Repair and external painting of one or both groups of the following houses: (a) 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14 Polvarth estate, St. Mawes; (b) 1, 2, 5, 7, 9, 10, 11, 12, 14 and 16 Sea View Crescent, St. Mawes; (2) installation of hot and cold water systems: 1, 2, 3 and 4 pre-war Council houses, Gram-pound Road. Applications to the Housing Manager's Office, Rural Council Hall, River Street, Truro. Tenders by May 8.

**Tyrone.**—Redecoration at Omagh Academy and Technical Schools, Drumclagh, Bready, Denamona (Fintona) and Langfield (Drumquin) Primary Schools for C.C. Documents from the Chief Education Officer, Education Offices, Omagh. Tenders by April 18.

**Tyrone.**—Redecoration at Sandholes, Toberlane, Cookstown and Killycurragh Primary Schools for C.C. Documents from

the Chief Education Officer, Education Offices, Omagh. Tenders by April 18.

**Ventnor, I. of W.**—External decoration of six houses in the Upper Ventnor area and six houses in the Wroxall area for U.D.C. Documents from the office of the Surveyor, Salisbury Gardens, Ventnor. Tenders by April 24.

**\*Wandsworth.**—Modernisation of Town Hall for B.C. Apply by April 24.

**Welwyn, Herts.**—Erection of 20 traditional garages with tarmac forecourt at Queensway estate for R.D.C. Written applications to the Surveyor, Council Offices, Welwyn. Tenders by May 1.

**Wem, Salop.**—External painting of 43 houses at eight sites for R.D.C. Documents from C. H. Jeffery, surveyor, Council Offices, Wem. Tenders by April 21.

**West Riding.**—Internal and external painting at the following schools during the summer months for C.C.: Spborough Norristhorpe County; Spborough Whitcliffe Road County; Spborough Heaton Avenue County; Spborough Hightown County; Spborough Littleton County; Heckmondwike Battye Street County; Heckmondwike Victoria Street County; Mirfield Knowl County. Documents from the Divisional Education Officer, Manor House, Halifax Road, Brighouse. Tenders by April 22.

**West Riding.**—Following for C.C.: (1) Internal and external painting of Grantley Hall Adult College, near Ripon; (2) toilet improvements at Harrogate New Park Secondary School; (3) reorganisation of kitchen at Hampthwaite Church of England School; (4) part re-wiring of electrical installation at Horsforth Springfield Special School; (5) demolition of the kitchen and reinstatement of the site at Guiseley (E.C.D.) School; (6) lighting improvements at Bingley Secondary School; (7) re-wiring of the electrical installation at Swinton Bridge Junior Mixed and Infants' School; (8) erection of chain-link fencing to additional land at Bentley High Street Secondary School; (9) re-wiring of the electrical installation at Featherstone George Street School; (10) re-wiring of the electrical installation at Pontefract Church of England Girls' School; (11) repairs to boundary walls and erection of chain-link fencing at the proposed new Stocksbridge Junior Mixed Infants' School, Spink Hall Lane, Stocksbridge. Applications for contracts 1, 2, 3, 4, 5 and 6 to the office of the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate; and for contracts 7 and 8 to the office of the Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster; and for contracts 9 and 10 to the office of the Divisional Architect, Bishopgarth, Westfield Road, Wakefield; and for contract 11 to the office of the Divisional Architect, Flint Street, Huddersfield. Only electrical installation contractors on the register of the National Inspection Council are invited to tender for contracts 4, 6, 7, 9 and 10, quoting National Inspection Council Certificate number. Tenders by May 2.

**\*West Riding.**—Toilet accommodation, etc., at Wombwell for C.C. Tenders by April 24.

**West Sussex.**—Following for C.C.: (a) additional music room at Chichester Lancastrian Secondary Modern School for Girls (job 6868); (b) additional physics laboratory at Chichester Lancastrian Secondary Modern School for Boys (6769); (c) extensions and modifications to Chichester Rumboldswyke Infants' School (6127). Applications to the County Architect, County Hall, Chichester, by April 18.

**\*Widnes, Lancs.**—Painting of school premises for B.C. Tenders by May 19.

**Wilmslow, Ches.**—External painting of houses for U.D.C., including (group I) 44, Lacey Green estate; (II) 40 aluminium prefabricated bungalows, Wallingford Road and Cumber Lane. Documents from A. J. Riley, engineer and surveyor, Council Offices, Green Hall, Wilmslow. Deposit £2 2s. Tenders by April 21.

**Wortley, Yorks.**—Following for R.D.C.: (1) Provision of 32 porches in pre-war Council houses at Pilly; (2) supply and installation of open fires to replace 57 Yorkshire type ranges at Oughtibridge. Applications to Arthur Wikeley, engineer and surveyor, Council Offices, Grenoside, Sheffield. Tenders by April 20.

**York.**—Provision of a bathroom and hot water services and repairs at 17 Kitchener Street for City Council. Documents from E. Firth, city architect, 8 St. Leonard's Place, York. Deposit £1 (cheques payable to Corporation). Tenders by April 21.

#### CLOTHING AND TEXTILES

**\*Dorset.**—Amulance service uniforms for C.C. Tenders by April 28.

**Perth.**—Supply of overalls and oilskins for City Council. Documents from A. H. Martin, town clerk, City Chambers, Perth. Tenders by April 21.



## DEMOLITION

**Halifax, Yorks.**—Demolition of property at (1) Three Trees, Illingworth, and (2) Jumbles House, Mixenden, for B.C. Documents from the Borough Engineer, Crossley Street, Halifax. Deposit £1, cheques payable to Corporation. Tenders by April 29.

**Heywood, Lancs.**—Demolition of 31 houses in the Bridge Street and Leigh Street clearance areas, for B.C. The work includes complete demolition, filling cellars, removal of materials and clearance of the sites. Documents from the Borough Engineer and Surveyor, Municipal Buildings, Heywood. Deposit £2 2s. Tenders by April 29.

**Merionethshire.**—Demolition of five brick towers with reinforced concrete roofs at Gibraltar Camp, Peniarth, near Towyn, for C.C. The material from the demolished towers, together with that from one already demolished, is then to be moved to a site approximately 200yd. to 400yd. away. Documents from the County Planning Officer, County Offices, Lombard Street, Dolgellau. Tenders by April 21.

**Torquay, Devon.**—Demolition of Adwell, 9 Teignmouth Road, for B.C., together with site stripping and levelling. Written applications to the Borough Engineer, Town Hall, Torquay. Tenders by April 24.

**Truro, Corn.**—Demolition and clearing of sites at the following for City Council: (1) 1-6 Tippetts Backlet and Leats urinal; (2) 2-10 Pydar Cottages; (3) 1-7 Sunrise Cottages and 71 Pydar Street; (4) 32-34 Moresk Road. Documents from S. John O'Farrell, city engineer and surveyor, Municipal Buildings, Truro. Tenders by April 24.

## ELECTRICAL

**Bath.**—Snow Hill redevelopment, 94 dwellings and one communal laundry—electrical installation, for City Council. Applications to Snailum and Le Fevre, architects, 18 Brock Street, Bath, by April 21. Deposit £1 ls., cheques payable to Corporation.

**Cardiff.**—Complete electrical installation in the Fairwater County Primary School, Pentre-pan Road, for City Council. Documents from W. S. Atkins and Partners, 6 Park Place, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by April 27.

**Dewsbury, Yorks.**—Renewal of the general overhead lighting installation in the omce of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by April 18.

**Ipswich, Suffolk.**—Electrical installation at St. Matthew's Baths for B.C. Documents from the Borough Engineer and Surveyor, 19 Tower Street, Ipswich. Deposit £3 3s. Tenders by May 1.

**Manchester.**—Supply and installation of the following for City Council: (a) Two passenger/goods lifts at the Central Technical College; (b) two passenger lifts and (c) electrical engineering services at Elizabeth Gaskell College Hostel. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 3.

**Manchester.**—Supply and erection of a passenger lift and a goods lift at Elizabeth Gaskell College extensions for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by April 18.

**Margate, Kent.**—Millmead Road housing estate, stage 1, for B.C. Tenders by April 29.

**Northwich, Ches.**—Electrical wiring of eight dwellings off Grange Road, Cuddington, and 28 dwellings off Wessex Drive, Rudheath, for R.D.C. Documents from the offices of the Engineer and Surveyor, Whitehall, Hartford. Northwich. Deposit £1 ls. Tenders by May 4.

**Peterborough.**—Electrical installation for extensions to Arthur Mellows Village College, Glinton, for Peterborough Joint Education Board. Comprising three laboratories, one classroom, a handicraft room and other accommodation. Documents from Surveyor to the Board, Town Hall, Peterborough. Deposit £2 2s. Tenders by May 5.

**Portrush, Antrim.**—Installation of fairy lighting for U.D.C. Documents from Town Surveyor, Dunluce Street, Portrush. Tenders by April 24.

**Scunthorpe, Lincs.**—Electrical re-wiring to modern standards of 238 pre-war houses, Crosby estate, for B.C. Documents from the Housing Manager, Housing Department, Lincoln Gardens, Scunthorpe. Tenders by April 27.

**Sunderland, Dur.**—Electrical installation in 305 dwellings for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by April 18.

**Tyrone.**—Electrical installation and mechanical services installation required in connection with the new county headquarters at Omagh for C.C. Documents from McCandless and Barton, consulting engineers, 6 Murray Street, Belfast. 1. Deposit £3 3s. each. Tenders by May 5.

**Tyrone.**—Lift installation in connection with the new county headquarters at Omagh for C.C. Documents from McCandless and Barton, consulting engineers, 6 Murray Street, Belfast. 1. Deposit £3 3s. Tenders by May 5.

**Wigan, Lancs.**—Electrical installation at the Council's proposed new depot to be erected on a site situate off Miles Lane, Shevington, for R.D.C. Documents from Surveyor to the Council, 10 Bridgeman Terrace, Wigan. Tenders by May 8.

## GAS AND WATER SUPPLY

**Atcham, Salop.**—Laying of approximately 230yd. 3in. diameter spun-iron main at Cross Houses housing site for R.D.C. Documents from the Engineer and Surveyor, 24 St. John's Hill, Shrewsbury. Tenders by May 5.

**Belfast.**—Supply and erection of three storage calorifiers, etc., at Ormeau Avenue baths, for City Council. Documents from City Surveyor's Department (Room 88), City Hall, Belfast. 1. Tenders by May 8.

**Bradford, Yorks.**—Construction of a masonry-faced pump-house with access road at Heaton reservoir for Corporation waterworks. Documents from the Waterworks Engineer, 50 Darley Street, Bradford. 1. Deposit £5 5s. Tenders by May 1.

**Bushey, Herts.**—Additional surface water sewer for U.D.C. Deposit £2 2s. Tenders by April 25.

**Dorset.**—Contract 11, for West Dorset Water Board. Work includes manufacture, supply, erection, testing and setting to work of electrically driven pumps, together with control gear, telemetering equipment, sterilisation plant and other appurtenant works at Hooke pumping station. The total output of the station will be in the region of 36,000 gallons per hour against a total head of about 420ft. Documents from Engineer and Manager, 45 South Street, Bridport, Dorset. Deposit £2 2s., by cheque. Tenders by June 3.

**Kingsclere and Whitchurch, Berks.**—Southern area water supply, contract 4C, chlorinator house, for R.D.C., including construction of a small brick building alongside the water tower in Whitchurch. Documents from Lemon and Blizard, engineers, 59 Tufnor Street, Westminster, London, S.W.1. Deposit £3 3s., cheques payable to R.D.C. Tenders by May 8.

**Kirkintilloch, Dunbarton.**—Construction of a filter station near Woodburn reservoir, for B.C., the works comprise filter house, sludge settling tanks, sludge drying beds together with all incidental piping and roadworks. Application to Crouch and Hogg, engineers, 18 Woodside Crescent, Glasgow, C.3.

**Kirkintilloch, Dunbarton.**—Laying of 15in. diameter pipes from Woodburn clear water tank to Ledgate, extending to about 2½ miles, for B.C. Applications to Crouch and Hogg, engineers, 18 Woodside Crescent, Glasgow, C.3.

**Middlesbrough, Yorks.**—Supply of the following bitumen-lined and sheathed steel pipes and specials, for a conduit from Darlington to the Middlesbrough area, for Tees Valley and Cleveland Water Board: (Contract 126, section 1, set 1) (a) Approximately 4½ miles of 39in. diameter pipe; (contract 126, section 2, set 2) (a) approximately six miles of 39in. diameter pipe; (contract 129, set 3) (a) approximately seven miles of 42in. diameter pipe, (b) approximately ¼ mile of 24in. diameter pipe; (contract 131, section 1, set 4) (a) approximately 1½ miles of 36in. diameter pipe, (b) approximately 1½ miles of 33in. diameter pipe; (contract 131, section 2, set 5) (a) approximately 1½ miles of 33in. diameter pipe, (b) approximately ¼ mile of 30in. diameter pipe. Applications in writing to T. S. R. Winter, engineer, new works, etc., The Tees Valley and Cleveland Water Board, Corporation Road, Middlesbrough. Deposit £3 3s. each, cheques payable to the Board. Tenders by April 26.

**Northern Ireland.**—Supply and erection at Coolkeeragh power station, Londonderry, of two 25,000 g.p.m. circulating water pumps and two non-return valves, suitable for operation with the existing pumps which have a discharge head of 30ft., for Electricity Board. Documents from Kennedy and Donkin, consulting engineers, 64 Royal Exchange, Manchester. 2. Deposit £5 5s. Tenders by June 12.

**Youghal, Cork, Eire.**—Improvement to water supply scheme for U.D.C. The works consist of: Construction of river intake, rapid gravity filters, clear water tank, new trunk mains and re-valving of existing mains. The approximate lengths of asbestos-cement mains to be laid are as follows: 815 lin. yd. of 10in. asbestos-cement class B pipe; 2,059 lin. yd. of 8in. asbestos-cement class B pipe. Documents from H. N. Walsh and Partners, consulting engineers, 39 Sundays Well, Cork. Deposit £15 15s. Tenders by April 29.

**Youghal, Cork, Eire.**—Supply and delivery, f.o.r. Youghal, and erection of equipment for chemical dosing, rapid gravity filters and sterilisation of the water supply, for U.D.C. Documents from H. N. Walsh and Partners, consulting engineers, 39 Sundays Well, Cork. Deposit £2 2s. Tenders by April 29.

**Youghal, Cork, Eire.**—Improvement to water supply scheme. Level recording equipment for the service reservoir at Youghal, for U.D.C. The equipment shall consist of a float and transmitter to be erected in the service reservoir with a small indicating dial for setting and checking purposes, a remote recording instrument for mounting in the Town Hall and the necessary power unit to operate the equipment over the telephone lines. Documents from H. N. Walsh and Partners, consulting engineers, 39 Sundays Well, Cork. Tenders by April 29.

## HARBOURS, PIERS AND SEA DEFENCE WORKS

**Lybster, Caithness.**—Reconstruction in steel-sheet piling (1,200 sq. ft.) and mass concrete (200 cu. yd.) of the spur jetty in the harbour for Harbour Society, Ltd. Documents from Arch. Henderson and Partners, consulting engineers, 11 Queensgate, Inverness. Plans also seen at Clydesdale and North of Scotland Bank, Ltd., Lybster. Tenders by April 28.

## HEATING AND VENTILATING

**Abertillery, Mon.**—Provision of low pressure hot water installation served by a gas-fired boiler, in accordance with recognised standards at the Metropole Theatre for U.D.C. Documents from Reginald M. Eke, engineer and surveyor, Council Offices, Abertillery. Deposit £2 2s. Tenders by April 24.

**East Riding.**—Installation of heating and hot water and cold water services at the proposed county secondary school, Howden, for C.C. Applications to the County Architect, County Hall, Beverley. Tenders by April 26.

**Wimbledon, Surrey.**—Heating and ventilation, Town Hall and Public Hall, for B.C. Deposit £2 2s.

## HOUSING SCHEMES

**Atcham, Salop.**—Two blocks of two-bedroom flats (four flats per block) for R.D.C. Documents from the Engineer and Surveyor, 24 St. John's Hill, Shrewsbury. Tenders by May 5.

**Birmingham.**—Seventy-eight dwellings, contract 755B, for City Council. Deposit £2 2s. Tenders by May 12.

**Blyth, Northumb.**—Fifty-two flats and maisonnettes at Phoenix Street, housing scheme 39, for B.C. Documents from Borough Engineer, Municipal Buildings, Seaford Street, Blyth. Tenders by May 12.

**Brackley, Northants.**—One pair of bungalows in stone at Charlton for R.D.C. Documents from the Engineer and Surveyor, Brackley Lodge, Brackley. Deposit £2 2s. Tenders by April 27.

**Canterbury, Kent.**—A three-storey block of 12 flats at Spring Lane estate for City Council. Documents from John L. Berbers, city architect, Municipal Buildings, Canterbury. Tenders by May 12.

**Cardiff.**—Six single-bedroom flats at Hazlett Close, Llanruef, for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by April 27.

**Chatham, Kent.**—Erection of Snodhurst House, 25 old people's flats, at Wayfield Road, Wayfield estate, for B.C. Applications in writing to J. A. T. Richards, borough engineer and surveyor, Town Hall, Chatham. Deposit £2 2s. Tenders by May 10.

**Chelmsford, Essex.**—Forty-three houses, 14 old aged persons' bungalows, 34 garages, together with roadworks and incidental site works, at Pym's Farm estate, Galleywood, in the parish of Great Baddow, for R.D.C. Documents from the office of the Housing and Estates Manager (Room 27), Council Offices, New London Road, Chelmsford. Deposit £2. Tenders by May 1.

**Chester.**—Four bungalows and eight houses at Arrowcroft Road, Guilden Sutton, for R.D.C. Documents from the office of T. C. R. Eaton, architect, 16 White Friars, Chester. Deposit £3 3s., payable to R.D.C. Tenders by April 24.

**Denby Dale, Yorks.**—Nine aged persons' bungalows, together with immediate drainage and associated roadworks and sewers, at Church Street site, Emley, for U.D.C. Documents from Joseph Berry and Sons, chartered architects, 5 Market Walk, Huddersfield. Deposit £2 2s., cheques payable to U.D.C. Tenders by April 18.

**Doncaster, Yorks.**—Twenty-two houses at Cantley and nine houses at Intake of two types, contract 709, for B.C. Documents from



the Borough Architect, 15 South Parade, Doncaster. Deposit £2. Tenders by April 19.

**East Kesteven, Lincs.**—Following for R.D.C.: Four traditional bungalows, type 1958E, one pair at High Street, Osbourne, and one pair at Church Street, Digby. Documents from Council's Architect, Council Offices, Northgate, Sleaford. Tenders by April 19.

**East Suffolk.**—Police house at Eye for Standing Joint Committee. Apply by April 18. Deposit £2 2s. Tenders by May 5.

**Flintshire.**—Farm house at Mount Pleasant Farm, Sychdyn, near Mold, for C.C. Applications to Maysmor W. Jones, county land agent, 16 Wrexham Street, Mold. Deposit £2 2s., cheques payable to C.C. Tenders by May 8.

**Goole, Yorks.**—Twenty houses and eight bungalows at Rawcliffe Bridge for R.D.C. Documents from the Surveyor, Rural District Council of Goole, 149 Boothferry Road, Goole. Deposit £2 2s. Tenders by May 5.

**Hale, Ches.**—Flats at Delahays estate for U.D.C. Deposit £2. Tenders by May 9.

**Isle of Wight.**—One pair of bungalows and drainage works at Thorley for R.D.C. Documents from 30 Pyle Street, Newport. Deposit £2 2s. Tenders by May 1.

**Livewhr, Glam.**—Seventeen composite blocks of six dwellings at Loughor, Gowerton and Gorseinon (the sites are available for immediate building operations), for U.D.C. Documents from Owen C. Wilkinson, Housing and Estates Department, Council Offices, Gorseinon. Deposit £2 2s. Tenders by May 10.

**Maldon, Essex.**—One block of eight flats at Queen Street, Southminster, for R.D.C. Documents from the Engineer and Surveyor, Wantz Road, Maldon. Deposit £2 2s. Tenders by April 19.

**Middleton, Lancs.**—Sixty-seven houses, three bungalows and 30 flats at Hollin estate for B.C. Documents from the Borough Surveyor, Town Hall, Middleton. Deposit £2 2s. Tenders by April 28.

**Morpeth, Northumb.**—Ten houses complete with outhouses, drainage and footpaths at Scots Gap, for R.D.C. The laying of flagged footpaths and minor reinstatement of estate roads are also included in the quantities. Documents from Engineer and Surveyor, Council Offices, Dacre Street, Morpeth. Deposit £2 2s. Tenders by May 1.

**Muir, Down.**—Ten bungalows with site and ancillary works at Waringstown, for R.D.C. Documents from the Rural District Council Office, Sloan Street, Lurgan. Deposit £2 2s. Tenders by April 19.

**Newbury, Berks.**—One hundred and six houses, scheme 9a, for B.C. Tenders by May 5.

**Newcastle Emlyn, Carm.**—Twenty-six dwellings (12 houses, eight flats and six bungalows) on the housing estate at Treherbert, Cwmanne, for R.D.C. Applications to S. J. Davies, clerk to the Council, Council Offices, Pontwelly, Llandysul, by April 15.

**Northern Ireland.**—Following for Housing Trust: (a) 37 dwellings and one shop, together with ancillary and engineering works, at Fovle Hill (development III); (b) 77 dwellings and 11 garages, together with ancillary and engineering works, at Elmwood Road. Documents from the offices of the Trust, 12 Hope Street, Belfast. 12. Deposit £3 each. Tenders by April 25.

**Norfolk.**—Following for C.C.: Thorne St. Andrew (Thinder Lane)—police inspector's house; Avsham—district nurse's house; King's Lynn (King George V Avenue)—pair of District Nurses' houses. Documents from the County Architect, 27 Thorne Road, Norwich. Nor 01T. Tenders by April 28.

**Northwich, Ches.**—Twelve dwellings for R.D.C. Deposit £2 2s. Tenders by May 4.

**Radnorshire.**—New farm houses for C.C. Deposit £2 2s. Tenders by May 6.

**St. Albans, Herts.**—Two flats and two garages on the corner site at the junction of Watson's Walk and Old London Road, for City Council. The contract will include for the demolition of six existing properties on the site. Applications to the City Engineer's Department, 16 St. Peter's Street, St. Albans. Tenders by April 24.

**Shipston-on-Stour, War.**—Eleven one-bedroom bungalows at Long Compton for R.D.C. Applications to Earp, Badger and Harrison, architects, Guild Chambers, Scholars Lane, Stratford-on-Avon. Deposit £2 2s. Tenders by April 26.

**Tottenham, Middx.**—One hundred and twelve dwellings, contract D, for B.C. Apply by May 1. Deposit £2 2s.

**Washington, Dur.**—Forty-two houses and the construction of roads and sewers at Village Lane, for U.D.C. Documents from the Engineer and Surveyor, Council Chambers, Washington. Deposit £2 2s. Tenders by May 15.

**Wood Green, Middx.**—Eight flats for B.C. Deposit £1 1s. Tenders by May 5.

## MATERIALS AND SUPPLIES

**Aberdeenshire.**—Supply of petrol, derv and fuel oil during the year 1961-62 for C.C. Documents from the County Surveyor, Council Offices, 4 Albyn Place, Aberdeen. Tenders by April 18.

**Downpatrick, Down.**—Delivery to Downpatrick of 120 litter bins, complete with fixing clips to suit 3 1/2 in. by 3 1/2 in. post for R.D.C. Firms tendering should submit with the tender a sample of the bin which they propose to supply. Tenders to the Engineer, Council Offices, Quoile Road, Downpatrick, by April 24.

**Islington.**—Supply of towels for B.C. Tenders by May 3.

**Morpeth, Northumb.**—Eighty-nine houses, Spelvit Lane, supply of the following, for B.C.: (1) Sanitary fittings; (2) fireplaces; (3) electrical installation. Documents from F. K. Perkins, borough surveyor, 36 Bridge Street, Morpeth. Tenders by April 24.

**Northfleet, Kent.**—Supply of the following during the period ending April 30, 1962, for U.D.C.: Concrete paving slabs; concrete kerbs; liquid bitumen; tar macadam; ragstone chippings; sand and ballast; cement. Documents from the Engineer and Surveyor, Town Hall, Northfleet. Tenders by April 28.

**Oakenegates, Salop.**—Supply of the undermentioned for the 12 months commencing April 1, 1961, for U.D.C.: Precast concrete kerbs and flags; tarred bituminous macadam; broken stone or slag and chippings; washed crushed gravel; washed sand; hire of road rollers; manhole covers and frames, gully grates and frames. Documents from the Engineer and Surveyor, Council Chambers, Oakenegates. Tenders by April 19.

**Salford, Lancs.**—Supply of fuel oil for heating purposes to various departments for City Council. Documents from the Director of Education, Education Office, Chapel Street, Salford, 3. Tenders by May 3.

## PLANT AND MECHANICAL TRANSPORT

**Armagh.**—Supply of a tractor fitted with cab and bucket loader and trailer fitted for refuse collection, for U.D.C. Documents from City Surveyor, City Hall, Armagh. Tenders by April 24.

**Bangor, Down.**—Following items of plant for B.C.: (1) One Pattison-mounted three-cylinder single-unit turf piercer; (2) one Ransomes 20in. Antelope power lawn mower; (3) one Austin A35 5cwt. van; (4) one 80-gallon capacity oil-fired tar boiler. Documents from the Borough Surveyor, Town Hall, The Castle, Bangor. Tenders by April 25.

**Brecon.**—Supply of a 12 cu. yd. capacity, rear-loading refuse collection vehicle for B.C. A condition of the tender will be that it is accompanied by an offer to purchase a 1951 Bedford refuse collection vehicle which will be withdrawn from service upon delivery of the new vehicle. Documents from the Borough Surveyor, Municipal Offices, Brecon. Tenders by April 24.

**Donegal, Eire.**—Supply and delivery of the following for C.C.: (a) 11 8- to 10-ton end-tipping diesel trucks for which 11 5-ton tipping lorries owned by the Council must be taken in part exchange; (b) four 5-ton end-tipping diesel trucks. Documents from A. A. Sharkey, county secretary, County House, Lifford. Tenders by April 19.

**Dumfrieshire.**—Supply of the following for C.C.: Two Karrier Gamecock chassis/cab 9ft. 7in. w.b. medium diesel engine, tyres 700 by 20-10 p.r.; end-tipping gear and panelled body with steel floor and sides, dimensions 11ft. by 7ft. by 1ft. 6in. drop-sides. The vehicles to be painted, lettered and delivered Dumfrieshire. Offers, under sealed cover and endorsed "Road Vehicles," to reach the County Clerk, County Buildings, Dumfries, by 10 a.m., April 24.

**Gilling, Suffolk.**—Following for R.D.C.: Supply and delivery of a 12/20 cu. yd. or similar capacity compression refuse collection vehicle with part exchange acceptance by the tenderer of an 11.4 cu. yd. side-loading Shelvoke and Drewry vehicle which may be inspected by arrangement at the Cleansing Depot. Tenders, in a plain sealed envelope endorsed "Tender—Refuse Collection Vehicle," to W. M. Bennett, clerk of the Council, Council Offices, Needham Market, near Ipswich, by first post, April 27.

**Lindsey.**—Supply of vehicles and plant for C.C. Tenders by April 19.

**Liverpool.**—Supply and delivery of the following for City Council: (a) One 20-ton low-loading drom-frame semi-trailer; (b) one heavy duty diesel engine tractor; (c) one 45-50-h.p. diesel engine crawler tractor, complete with hydraulically operated angle-doing equipment. Documents from the City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by May 26.

**Lunesdale, Lancs.**—Karrier Gamecock mounted with 18 cu. yd. dual tip refuse collector body for R.D.C. A 1949 Karrier refuse collector is offered in part exchange. Documents from John A. Hallsworth, clerk to the Council, Council Offices, Hornby, near Lancaster. Tenders by April 19.

**Melford, Suffolk.**—Supply of one 800-gallon cesspool emptying machine, complete with 200ft. of suction hose and with fully opening rear door to tank. Vehicle to be fitted with diesel engine and heavy duty tyres for R.D.C. The Council will be disposing of one 1949 Dennis cleansing unit and tenderers are asked to indicate what allowance they would be prepared to make in respect of this vehicle. Tenders, in sealed envelopes endorsed "Cesspool Emptying," to J. A. Shaw, clerk of the Council, Council Offices, Chilton House, Newton Road, Sudbury, by first post, April 25.

**Midhurst, Sussex.**—Supply of refuse vehicle for R.D.C.

**Radcliffe, Yorks.**—Supply of a Bedford 5-ton lorry for B.C. Documents from Borough Engineer, Town Hall, Radcliffe. Tenders by April 24.

**Saddleworth, Yorks.**—Supply of light motor van for U.D.C. Tenders by May 1.

## PLAYING FIELDS, PARKS, ETC.

**Barnstaple, Devon.**—Reconstruction of three grass tennis courts to bituminous macadam surfaced courts with kerb surround and the supply and erection of chain-link fencing surround at Rock Park Sports Centre for B.C. Documents from the Borough Surveyor, The Castle, Barnstaple. Tenders by April 24.

**Berwick-upon-Tweed, Northumb.**—Resurfacing tennis courts for B.C. Tenders by April 17.

**Fremington, Devon.**—Layout of burial ground, stage 1, for Parish Council, comprising entrance walls and gates, tarmacadam car park, store, water supply, drainage works, gravel paths and hedge planting. Documents from Oliver and Dyer, architects, Queen Anne Chambers, Barnstaple. Tenders by April 26.

**Havant and Waterloo, Hants.**—Construction of tennis courts for U.D.C. Tenders by May 1.

**Hoyland Nether, Yorks.**—Construction of a concrete paddling pool at Elsecar Park for U.D.C. Documents from Engineer and Surveyor, Town Hall, Hoyland, near Barnsley. Tenders by May 1.

**Wellington, Salop.**—Following at new playing fields, Hadley, for R.D.C.: (1) Erection of groundsmen's house and pavilion; (2) formation of football pitches, bowling greens and tennis courts. Applications to J. Brian Cooper, 38 Highfield Road, Edgbaston, Birmingham, 15, by April 22. Deposit £2 2s.

## RIVER AND FLOOD PREVENTION WORKS

**Cambridge.**—Four contracts for Great Ouse River Board. Deposit £5 5s. each. Tenders by May 1.

## ROADS, BRIDGES AND SITE WORKS

**Aldeburgh, Suffolk.**—Construction of 478 sq. yd. of fine cold asphalt and tarmacadam carriageway on hardcore, footways, and ancillary works on the Franklin Road housing estate for B.C. Documents from the office of the Borough Surveyor, Borough Offices, Aldeburgh. Deposit £2 2s. Tenders by April 29.

**Aldeburgh, Suffolk.**—Making-up of the following for B.C.: Linden Road—772yd. long 16ft. carriageway, 5ft. footways and 7ft. verges; Linden Close—715yd. long 16ft. carriageway, 5ft. footways and 2ft. verges; Fairfield Road (part of)—76yd. long 16ft. carriageway, 5ft. footways and 5ft. verges; Springfield Road—219yd. long 16ft. carriageway, 5ft. footways and 2ft. verges. The works include construction of carriageway (fine cold asphalt and tarmacadam on hardcore), drainage, kerbing, and construction of footways with grass verges. Documents from the office of the Borough Surveyor, Borough Offices, Aldeburgh. Deposit £2 2s. Tenders by April 29.

**Antrim.**—Following for C.C.: (a) Proposal 1222—reconstruction of approximately 150 lin. yd. of route C.37 at Humestown, Ballynure (Larne Rural District), including demolition of a reinforced concrete bridge, together with the resurfacing of a further 180 lin. yd.; (b) proposal 893—reconstruction of approximately 250 lin. yd. of district road 76 (Headwood) at Bogtown, Kilwaughter (Larne Rural District); (c) proposal 895—reconstruction of approximately 150 lin. yd. of district road 85 (Loughdoe) at Linford Bridge, near Cairncastle (Larne Rural District). Documents from County Surveyor's Office, County Court-house, Belfast. Deposit £2 2s. Tenders by April 21.

**Antrim.**—Tarmacadam repairs, resurfacing and spraying roads and paths at Greenmount



Agricultural College, Co. Antrim, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by April 19.

\***Banstead, Surrey.**—Cold asphalt surfacing for U.D.C. Deposit £2 2s. Tenders by May 1.

\***Barnet, Herts.**—Re-laying of paved footways for U.D.C. Tenders by April 22.

\***Barnard Castle, Dur.**—Surfacing of the car park off Galgate, approximately 4,200 sq. yd. bituminous macadam undercoat with cold asphalt wearing surface for U.D.C. Documents from the office of F. L. White, surveyor, Council Offices, Woodleigh, Barnard Castle. Deposit £2 2s. Tenders by April 24.

\***Barnet, Herts.**—Patching and surface dressing to carriageways for U.D.C. Tenders by April 22.

\***Barry, Glam.**—Advance preparation of Crogan Hill housing site for B.C. The works include excavation and formation of builders' roads and the laying of sewers and drains, comprising 300 lin. yd. of roadworks and 360 lin. yd. of drainage works. Documents from the office of the Borough Engineer and Surveyor, Town Hall, Barry. Deposit £2. Tenders by April 22.

\***Basildon, Essex.**—Improvement of A129 Southend Road at Shotgate bridge for U.D.C. Apply within seven days.

\***Bedwellty, Glam.**—Bituminous macadam carpet coats to carriageways of classified and unclassified roads for U.D.C. The works include the provision of material and labour and the laying by means of a Barber-Greene or other approved spreading and finishing machine. Documents from T. I. Thomas, engineer and surveyor, Municipal Offices, Aberargoed, Bargoed. Deposit £2 2s. Tenders by April 21.

\***Benfleet, Essex.**—Making-up of St. Mary's Road (part), Homefields Avenue, Templewood Road, Downer Road (South) (part), and Parkstone Avenue for U.D.C. The works comprise approximately 9,780 super. yd. of concrete carriageway; 4,950 super. yd. of concrete footway; 1,500 lin. yd. of surface water sewer; 320 lin. yd. of foul sewer, and 3,000 lin. yd. kerbing. Applications to the Engineer and Surveyor, Council Offices, Thundersley, by April 17. Deposit £2.

\***Beverley, Yorks.**—Construction of approximately 560 sq. yd. of tarmacadam carriageway and 200 lin. yd. of 6 in. sewers at Holly Hill, Welton, contract 485, for R.D.C. Documents from G. Palfreyman, engineer and surveyor, 22 Lairgate, Beverley. Deposit £1, cheque payable to R.D.C. Tenders by May 2.

\***Bexhill, Sussex.**—Surface dressing of approximately 48,700 super. yd. of carriageway for B.C. Documents from Borough Engineer and Surveyor, Town Hall, Bexhill-on-Sea. Tenders by April 22.

\***Birkenhead, Ches.**—Supply of road materials for B.C. Tenders by May 1.

\***Birmingham.**—Following for City Council: (a) Reconstruction of Oxhill Road from Windermere Road to Sandwell Road; (b) construction of carriageways and footways on Netchells Green redevelopment area, unit 18 (part); extension of Duddleston Manor Road to Heneage Street; (c) reconstruction of Sandy Lane from Camp Hill to Coventry Road. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s. each. Tenders by April 26.

\***Brighouse, Yorks.**—Making-up of the following streets for B.C.: (a) (P.S.W. 29)—Bracken Road Central, Brighouse; (b) (30)—Bracken Road East, Brighouse; (c) (33)—Ye Farre Close, Brighouse; (d) (34)—Blackburn Road North, Brighouse; (e) (35)—Blackburn Road South, Brighouse. Works 29 and 30 form one contract, and 33, 34 and 35 form a second. Documents from the office of H. A. Sneezum, borough engineer, Commercial Street, Brighouse. Deposit £1. Tenders by April 28.

\***Bury, Lancs.**—Supply and laying of approximately 12,000 sq. yd. of hot-rolled asphalt surfacing for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by April 22.

\***Cardiff.**—Construction of the pile foundations for one two-storey block of six single-bedroom flats at Hazlett Close, Llanrumney, for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by April 27.

\***Cheadle and Gatley, Ches.**—Surface dressing of approximately 87,000 super. yd. of highways for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Cheadle. Tenders by April 22.

\***Chelmsford, Essex.**—Patching Hall Lane improvement, resurfacing, for B.C. Deposit £2 2s. Tenders by April 24.

\***Christchurch, Hants.**—Surface dressing of carriageways within the borough for B.C. Work comprises surface dressing, chipping and rolling. Documents from Borough Engi-

neer, Town Hall, Christchurch. Tenders by April 21.

\***Colne, Lancs.**—Heating and planing of approximately 13,500 super. yd. of existing hot-rolled asphalt surfacing in Albert Road, Primet Hill and Burnley Road (A.56) and North Valley Road (B.6250), and resurfacing with hot-rolled asphalt for B.C. Documents from the Borough Engineer, Town Hall, Colne. Tenders by April 25.

\***Colne Valley, Yorks.**—Reconstruction and improvement at the junction of Tanners and Varley Road, Slaithwaite, length approximately 100 yd. for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, near Huddersfield. Deposit £1 ls. Tenders by April 24.

\***Down.**—Resurfacing in two-coat asphalt, approximately 5,800 sq. yd. at Lisburn Street, route A49, Dromore Street, and Crossgar Road, route B7, adjacent to route T2 in Ballynahinch, for C.C. Documents from the County Surveyor, English Street, Downpatrick. Tenders by April 25.

\***Durham.**—South Road cemetery extension for City Council, including the construction of approximately 2,000 sq. yd. of flexible carriageway, 750 sq. yd. coated macadam path, 850 sq. yd. ash path, 1,250 lin. yd. land drain and ancillary works. Documents from the City Engineer, Town Hall, Market Place, Durham. Deposit £2 2s. Tenders by April 18.

\***Durham.**—Supply and laying of approximately 38,300 super. yd. of single hot-rolled asphalt, 1½ in. thick, on the Pity Me by-pass section of trunk road for C.C. Documents from the County Surveyor, Aykley Heads, Durham. Tenders by April 21.

\***East Suffolk.**—Application and renewal of plastic white line and associated road markings on trunk and county roads, 1961-62, for C.C. Documents from the County Surveyor, County Hall, Ipswich. Tenders by April 21.

\***Exmouth.**—Making-up of Newlands Avenue, comprising kerbing, carriageway and footpath construction and surfacing and the provision of gullies for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Exmouth. Deposit £2 2s. Tenders by April 24.

\***Fifehire.**—Leven Road, Kennoway—construction of a road extending in length up to 660 ft. for C.C. Documents from the County Surveyor, County Offices, Belfield, Cupar. Deposit £2 2s. Tenders by April 18.

\***Folkestone, Kent.**—Making-up of Wellington Road (150 lin. yd.) for B.C. Documents from the office of E. L. Allman, borough engineer, West Terrace, Folkestone. Deposit £2 2s. Tenders by April 22.

\***Glamorgan.**—Making-up of private streets for C.C. Deposit £3. Tenders by May 7.

\***Gravesend, Kent.**—Private street works for B.C. Tenders by May 15.

\***Halifax, Yorks.**—Application by pressure sprayer of approximately 52,500 gallons of tar for B.C. Documents from the Borough Engineer, Crossley Street, Halifax. Deposit £1, cheques payable to Corporation. Tenders by April 14.

\***Hereford.**—Roads and sewers at Prospect Farm housing estate for City Council. Deposit £2 2s. Tenders by April 24.

\***Hull.**—Construction of approximately 1,200 sq. yd. of concrete road and 110 lin. yd. of sewer on the permanent housing site, ref. 24B (off Holmgarth Drive) for City Council. Documents from the City Engineer, Guildhall, Hull. Deposit £2, payable to City Treasurer. Tenders by April 28.

\***Keynsham, Som.**—Temple Street improvement for U.D.C. Deposit £2 2s. Tenders by April 28.

\***Kent.**—Strengthening of Barming Bridge for C.C. Tenders by May 1.

\***Kincardineshire.**—Improvement works on trunk road A92 for C.C. Site inspection April 24. Tenders by May 12.

\***Lancashire.**—Construction and completion of roadworks in Oak Road (part of) and Elm Road, Penketh, in the rural district of Warrington for C.C. Documents from the County Surveyor and Bridgmaster, P.O. Box 9, Preston. Deposit £2, cheques payable to C.C. Plans seen at 9 Fishergate Hill, Preston. Tenders by April 28.

\***Leeds.**—Private street works for City Council. Deposit £1 ls. Tenders by April 27.

\***Leicestershire.**—Making-up of Sports Road, Glenfield, for C.C., including approximately 5,700 sq. yd. carriageway, 1,800 lin. yd. kerbing and approximately 950 lin. yd. of surface water sewer, 9 in. and 12 in. diameters. Documents from the County Engineer and Surveyor, County Offices, Grey Friars, Leicester. Deposit £5. Tenders by April 26.

\***Maldon, Essex.**—Construction of siteworks at Bradwell Waterside housing site for R.D.C., comprising 430 sq. yd. concrete carriageway, 220 sq. yd. tarmacadam footpath, 100 lin. yd. kerbing, and other incidental works. Documents from I. M. Nicholson, engineer and

surveyor, Wantz Road, Maldon. Tenders by April 19.

\***Newbury, Berks.**—Making-up of Priory Road and Abbots Road for B.C. Tenders by April 27.

\***Newton Abbot, Devon.**—Tarspraying for U.D.C.

\***Peterborough.**—Laying of paving slab paths at Eye as follows for R.D.C.: (group 1) Eye-bury Road, six houses, Eye-bury Street 16 houses; (2) Crowland Road, 12 houses; (3) Northam Road, 16 houses, Northam Terrace, eight houses. Documents from Council's Surveyor, 51 Priestgate, Peterborough. Tenders by May 2.

\***Porthcawl, Glam.**—Making up of the following streets for U.D.C.: (1) Eithen Place; (2) Vernon Road; (3) Hutchwms Close; (4) West End Avenue. Documents from A. C. Rees, engineer and surveyor, Council Offices, South Road, Porthcawl. Deposit £4 4s. Tenders by April 24.

\***Port Talbot, Glam.**—Construction of roads and sewers between Princess Margaret Way and Dalton Road, Aberavon, for B.C., comprising 1,500 super. yd. of carriageway and 200 yd. of sewers. Documents from the Borough Engineer, Municipal Buildings, Aberavon. Deposit £2 2s. Tenders by April 25.

\***Portrush, Antrim.**—Tarmacadam surfacing, resurfacing, patching, surface dressing and other road maintenance work, for U.D.C. Documents from Town Surveyor, Dunluce Street, Portrush. Tenders by April 24.

\***Rayleigh, Essex.**—Making-up of two streets for U.D.C. Tenders by May 1.

\***Rotherham, Yorks.**—West Bawtry road improvement for B.C. Deposit £5 5s. Tenders by April 28.

\***St. Albans, Herts.**—Minor improvements and reinstatements for the period terminating on March 31, 1962, for City Council. Documents from the City Surveyor, 16 St. Peter's Street, St. Albans. Tenders by April 20.

\***St. Neots, Hunts.**—Construction of approximately 1,500 super. yd. of carriageway, 1,000 super. yd. of footpath and foul and surface water drainage in connection therewith for U.D.C. Applications to E. S. Wilson, and Partners, 8 Storeys Gate, Westminster, S.W.1, by April 17. Tenders by May 10.

\***Salisbury, Wilt.**—Making-up of Manor Avenue (part) for B.C., consisting of approximately 1,800 lin. yd. of concrete kerb and channel, 8,800 sq. yd. of road foundation and surfacing, 3,900 sq. yd. of footway foundations and surfacing, drainage and ancillary works. Documents from the Borough Engineer's Office, Town Hall, Salisbury. Deposit £2 2s. Tenders by May 1.

\***Slough, Bucks.**—Making-up of Orchard Avenue for B.C., comprising approximately 2,000 sq. yd. of tarmacadam carriageway surfacing, 650 lin. yd. of kerbing, 80 lin. yd. of 9 in. surface water sewer, and ancillary works. Documents from the Borough Engineer, Town Hall, Slough. Deposit £2 2s. Tenders by April 28.

\***Southall, Middx.**—Reconstruction of Trinity Road for B.C. Deposit £2. Tenders by April 24.

\***Southwell, Notts.**—Road, footpath, foul and surface water sewers and water main on their site for 22 houses off Staythorpe Road, Rolleston, for R.D.C. Documents from Council's Architect, 7 Westgate, Southwell, Notts. Deposit £2 2s. Tenders by May 8.

\***Stratford-upon-Avon, War.**—Following at Alcester Road industrial and housing estate—Mason's Road extension, for B.C. Provision and laying of approximately 140 lin. yd. of surface water sewer, together with manholes, gullies and connections; approximately 240 lin. yd. of foul sewer, together with manholes and house connections; and construction of approximately 1,500 sq. yd. of new carriageway including bulk excavation and provision and laying of precast concrete kerbs and channels. Deposit £2 2s. Tenders by April 24.

\***Sunderland.**—Following for B.C.: Road works—(a) Ashwood Avenue and Oaklands Crescent; (b) Thornholme Road. Works comprise (a) approximately 2,500 sq. yd. 6 in. concrete foundation and 1,700 sq. yd. footpath works; (b) approximately 2,250 sq. yd. 8 in. concrete foundation and 850 sq. yd. footpath works. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. Tenders by April 20.

\***Tenterden, Kent.**—Car park, rear of Embassy Cinema for B.C. Deposit £2 2s. Tenders by April 20.

\***Todmorden, Lancs.**—Surface dressing of approximately 30,000 super. yd. carriageway, including provision of all materials, plant and labour, for B.C. Documents from Borough Engineer, Municipal Offices, Todmorden. Deposit £2. Tenders by April 21.

\***Ventnor, I. of W.**—Making-up of a service road, Leeson Road, Ventnor, including the provision of kerbing, footpath and carriage-



way for U.D.C. Documents from the Surveyor, Salisbury Gardens, Ventnor. Tenders by April 29.

**Westmeath, Eire.**—Rebuilding of Kilbeggan bridge on the Dublin-Galway road for C.C. The work comprises the construction in reinforced concrete of a new 30ft. span bridge clear of the existing structure, construction of a tailrace culvert of 20ft. span, construction of retaining walls and provision of gravel filling to the widened approaches, diversion of the river Brosna, demolition of the existing bridge arches, temporary bridge construction and other contingent work. Documents from J. J. Roughan, consulting engineer, 7 Lower Abbey Street, Dublin. Deposit £10 10s. Plans also seen at the County Engineer's Office, County Buildings, Mullingar. Tenders by April 22.

**West Riding.**—Reclamation of derelict land at Bruntcliffe, Morley, together with the construction of ditches, culvert and fencing, and other incidental works for C.C. Documents from the County Planning Officer, County Planning Department, 71 Northgate, Wakefield. Deposit £1. Tenders by April 24.

**West Riding.**—Survey works along the line of the proposed Sheffield-Leeds Motorway which is 35 miles in length. 1/500 plans with contours are required, together with longitudinal and cross-sections and other supporting information, for C.C. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Tenders by April 24.

**Worsley, Lancs.**—Harrop Street redevelopment, road and sewer contract, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Walkden. Deposit £3 3s. Tenders by April 27.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Aberdeen.**—Reconstruction of the existing sludge drying bed, the construction of two new beds, and certain ancillary works at Tarland Irrigation Farm, Tarland, for City Council. Documents from the office of the City Engineer, Town House, Aberdeen. Deposit £2 2s. Tenders by April 21.

**Ashby-de-la-Zouch, Leics.**—Atherstone Road and Tamworth Road sewerage for R.D.C., consisting of laying about 1,300yd. of 9in. and 6in. diameter sewers, the construction of a sewage ejector station and the laying of about 300yd. of 4in. diameter pumping main, together with manholes, house connections and ancillary works, in the parish of Measham. Documents from the offices of Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester. Deposit £3 3s. Tenders by May 10.

**Barnet, Herts.**—Conveyance of refuse for U.D.C. Tenders by April 22.

**Bournemouth, Hants.**—Supply of sewage pumps for B.C. Tenders by May 10.

**Chester-le-Street, Dur.**—Sewerage, Barley Mow area, for R.D.C. Apply by April 29. Deposit £5.

**Cosford, Suffolk.**—Housing site sewerage and sewerage disposal works, Crowcroft Road, Nedging-with-Naughton, for R.D.C., consisting of small sewage disposal works to serve 28 dwellings and to include the laying of approximately 220yd. 6in. glazed stoneware sewers with manholes. Documents from the Surveyor, Council Offices, 32 High Street, Hadleigh, near Ipswich. Tenders by April 20.

**Droitwich, Wores.**—Omersley sewerage extension, contract 4, for R.D.C., including the laying of 510yd. of 6in. diameter earthenware pipe sewer, together with manholes and appurtenant works. Documents from Arnold Brooksbank and Son, consulting engineers, 48 Sunbridge Road, Bradford, 1. Deposit £2 2s., cheques payable to R.D.C. Tenders by April 25.

**Evesham, Wores.**—Ashton-under-Hill sewerage scheme for R.D.C. Tenders by May 9.

**Frimley and Camberley, Surrey.**—Sewage disposal works extensions, contract 8, for U.D.C. Deposit £10 10s. Tenders by May 15.

**Fulwood, Lancs.**—Construction of relief sewer for U.D.C. Deposit £2 2s. Tenders by May 13.

**Goole, Yorks.**—Rawcliffe and Rawcliffe Bridge sewerage scheme for R.D.C. Deposit £3 3s. Tenders by May 13.

**Hertfordshire.**—Construction of some 800yd. of surface water drain at Lybury Lane, Redbourn, for C.C. The major part of the work is to be carried out in land near the highway. The drain will be laid at depths up to 10ft., it varies in size from 12in. to 6in. diameter and has 11 precast concrete manholes on its length. Documents from County Surveyor, County Hall, Hertford. Tenders by April 26.

**Hertfordshire.**—Construction of some 800yd. of surface water drain at Lybury

Lane, Redbourn, for C.C. The major part of the work is to be carried out in land near the highway. The drain will be laid at depths up to 10ft.; it varies in size from 12in. to 6in. diameter and has 11 precast concrete manholes on its length. Documents from the office of the County Surveyor, County Hall, Hertford. Tenders by April 26.

**Hoyland Nether, Yorks.**—Construction of approximately 2,400 super. yd. of carriageway and associated sewers from 6in. to 9in. diameter at Skiers View Road site, Hoyland, for U.D.C. Documents from Engineer and Surveyor, Town Hall, Hoyland, near Barnsley. Tenders by May 1.

**Luton, Beds.**—Storm water and foul water drainage in connection with phase I of airport development for B.C. The works extend over part of the airport and along old Kimpston Road to junction with Eaton Green Road, and include laying sewers up to 27in. diameter maximum, with appurtenant works. Documents from the Borough Engineer, Town Hall, Luton. Deposit £2 2s. Tenders by April 21.

**Lymm, Ches.**—Following works for U.D.C.: (1) Sewage pumping stations at Statham and Sow Brook and the requisite pumping mains to deliver the sewage to a new site; (2) a new sewage disposal works, comprising inlet arrangements, two 40ft. diameter sedimentation tanks, allocating and dosing chambers, four 90ft. diameter percolating filters, two 30ft. diameter humus tanks, sludge drying beds, storm water tanks, pump house, mess room and office, outfall sewer to the River Bollin, access road and general site works. Documents from Charles J. Lomax and Son, chartered civil engineers, 68 Barton Arcade, Manchester, 3. Deposit £5 5s., cheques payable to U.D.C. Tenders by May 16.

**March, Cambs.**—Laying of approximately 685 lin. yd. of 6in. diameter and 4in. diameter subsidiary foul sewers, together with 23 manholes, and ancillary works, at Highfield Road, for U.D.C. Documents from W. S. Pickett, engineer and surveyor, Town Hall, March. Deposit £3 3s. (cheques payable to U.D.C.). Tenders by April 22.

**Market Bosworth, Leics.**—Relief sewers and sewerage of Station Road for R.D.C. Deposit £5 5s. Tenders by May 13.

**Montgomery.**—Construction of about 1,900 lin. yd. of concrete and glazed stoneware pipe sewers, varying in diameter from 6in. to 15in., with manholes, and sewage disposal works, comprising screening and detritus tanks, storm overflow chamber, sedimentation tanks, storm water tanks, dosing chamber and bacteria beds, humus tanks, pumping station, sludge lagoon, pipework, chambers, road, paths and incidental works for B.C. Documents from Edward J. Lloyd, town clerk, Council Offices, Montgomery, or A. H. S. Waters and Partners, engineers, 25 Temple Row, Birmingham, 2. Deposit £5 5s. Tenders by May 12.

**Nuneaton, War.**—Weddington sewage pumping main for B.C. Deposit £2 2s. Tenders by April 24.

**Oakengates, Salop.**—Proposed relief sewer, Trench Road, Trench, for U.D.C., comprising about 270 lin. yd. of 15in. and 58 lin. yd. of 12in. glazed stoneware pipes, together with ancillary works. Documents from the office of the Engineer and Surveyor, Council Offices, Stafford Road, Oakengates. Deposit £2 2s. Tenders by April 18.

**Pontefract, Yorks.**—Gallows Hill and Hillcrest Avenue, Townville, sewerage for B.C., including the construction of approximately 380 lin. yd. of 9in. diameter, 360 lin. yd. of 6in. diameter and 115 lin. yd. of 4in. diameter flexible joint salt-glazed ware pipe sewer, 265 lin. yd. of 4in. diameter normal salt-glazed ware drain connections, together with brick and concrete balancing tank 40ft. by 10ft. by 5ft., manholes, inspection chambers and ancillary works. Documents from the office of the Borough Engineer, Municipal Offices, Pontefract. Tenders by April 24.

**St. Ives, Hants.**—Sewerage and sewage disposal for R.D.C. Deposit £5 5s. Tenders by May 24.

**Southam, War.**—Ratley sewerage for R.D.C. Deposit £5 5s. Tenders by May 8.

**Stourbridge, Wores.**—Surface water culverts for B.C. Apply by April 28.

**Wandsworth.**—Construction of manholes for B.C. Apply by April 19.

**Wandsworth.**—Reconstruction of sewers for B.C. Apply by April 19.

**West Kesteven, Lincs.**—Long Bennington sewerage and sewage disposal for R.D.C. Deposit £5 5s. Tenders by May 19.

**Wokingham, Berks.**—Construction of 1,700ft. of 6in. foul and surface water sewers in Simons Lane and Doles Lane for B.C. Documents from the Borough Surveyor, Town Hall, Wokingham. Deposit £2 2s. Tenders by April 24.

**Worthing, Sussex.**—Sewage disposal works reconstruction for B.C. Apply by April 17.

#### STREET LIGHTING

**\*Beddington and Wallington, Surrey.**—Group B street lighting for B.C. Tenders by April 28.

**Bury, Lancs.**—Following, for B.C.: (a) Supply of 61 steel or concrete columns, 30ft. to light source, together with 200-W sodium lanterns, lamps, control gear, and time switches; (b) erection and installation of above; (c) removal of 120 existing traction type standards, overhead lines, etc. Documents from Street Lighting Superintendent, Street Lighting Department, Hacking Street, Bury. Tenders by April 18.

**Otley, Yorks.**—Installation of group A lighting for U.D.C., comprising the supply and erection of 50 plain tubular steel street lighting columns and brackets, totally enclosed side entry lanterns, lamps, ancillary control gear and wiring for 250-watt and 400-watt colour-corrected mercury fluorescent lighting along a length of 1.069 miles, in Pool Road, Otley (route A.659). Documents from the office of the Surveyor and Engineer, North Parade, Otley. Deposit £1 1s. Tenders by April 29.

**Littleborough, Lancs.**—Supply and delivery of 24 concrete group B lighting columns, together with 60-W sodium discharge lanterns, lamps, vacuum jackets, and auxiliary gear for U.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, Littleborough. Tenders by April 22.

**\*Manchester.**—Supply of (a) lanterns, etc., and (b) bracket sleeves for City Council. Tenders by May 2.

**Willesden, Middx.**—Following works for B.C.: (a) Supply only 15 140-W and 261 60-W sodium lighting units and ancillary equipment; (b) supply and erection of 15 25ft. mounting height concrete columns and 261 15ft. mounting height concrete or steel columns, wiring and fixing of lanterns and ancillary equipment. Documents from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Deposit £2 2s. Tenders by May 9.

**\*Winchester.**—Street lighting for City Council. Deposit £2 2s. Tenders by April 21.

#### AWARDS

##### BUILDING AND DECORATING

(See also Housing Schemes)

**Armagh.**—Extension to Government factory for Ira Ickringill and Co., Ltd.—P. Carvill and Son, Ltd., Queen Street, Warrenpoint, Down. W. H. McAlister and Partners, architects, 6 Donegall Road, Belfast, 12; John Wright, quantity surveyor, 45 Textile Buildings, 9 Donegall Square South, Belfast, and A. W. G. Holt, consulting engineer, 74 South Parade, Belfast, 7.

**Barrow-in-Furness, Lancs.**—Following for B.C.: Construction of the crematorium—Direct Labour, £54,854 (recommended).

Alterations and additions to St. James's C. of E. Junior School—Direct Labour.

**Battersea.**—Following for B.C.: Conversion and repair works at 33 Kathleen Road—G. A. Flashman and Son, Ltd., Harwood Works, Sheepcote Lane, London, S.W.11, £2,716; improvements and repairs at 49-51 Freedom Street, 25-27 Odger Street, 31-33 Reform Street, 130-132 and 174-176 Sheepcote Lane—Direct Labour, £1,537, £1,400, £1,457, £1,537 and £1,537; foundations and work below damp course level for 16 and 36 maisonnettes, 21 flats, two shops, estate office, and 27 lock-up garages at Currie Road section of Winstanley Road area—Direct Labour, £43,046 (all recommended).

**Boreham Wood, Herts.**—Erection of licensed premises, The Green Dragon, at Leeming Road, for Charrington and Co., Ltd.—Howard Farrow, Ltd., Highfield Road, Golders Green Road, London, N.W.11, £31,000. E. G. Franchkow, architect, 86 Fenchurch Street, London, E.C.3; and P. J. D. Mitchell, quantity surveyor, Anchor Brewery, London, E.1.

**Bromley, Kent.**—Redecoration of following for B.C.: Grammar School for Boys—C. Edwards (Builders), Ltd., 47 Parish Lane, London, S.E.20, £796; Grammar School for Girls—Bertram (Builders), Ltd., Bromley, £732; Quernmore Secondary School for Boys—Henry Ludlow, Ltd., Station Buildings, Bickley, Bromley, £904; Technical School for Girls—Pearce Bros. Builders, Ltd., 1a North Street, Bromley, £870 (recommended).

**Caernarvonshire.**—Erection of a school meals kitchen at Bodafon V.A. School for Co. E.C.—W. W. Jackson, 22 Min y Ddol, Bangor, £1,862.

**Cardiff.**—Offices and canteen at Penarth Road for Gulf Radiators, Ltd.—John Laing and Son, Ltd., Mill Hill, London, N.W.7.



- Cheadle Hulme, Ches.**—Teaching block in Laingspan construction at Claremont Road for Royal Warehousemen, Clerks and Drapers Schools—John Laing and Son, Ltd., Mill Hill, London, N.W.7.
- Cheadle Hulme, Ches.**—Erection of warehouse and office block at Stanley Road for John Williams and Sons, Ltd.—J. Gerrard and Sons, Ltd., Swinton, Lancs., £106,000. Eric Firmin and Partners, architects, Thavies Inn House, Holborn Circus, London, E.C.1, and Leslie W. Clark and Partners, quantity surveyors, 9 Richmond Buildings, London, W.1. Work commenced.
- Chester-le-Street, Dur.**—Earthworks, drainage, etc., at new marshalling yard at Lamesley for British Railways—Derek Crouch (Contractors), Ltd., Station Road, Birtley, Co. Durham.
- Chichester, Sussex.**—Improvements to the 61 houses at Albert Road, Appledram Lane, Clay Lane and Frederick Road, for City Council—Direct Labour (recommended, subject to Ministry approval). Estimated cost £19,000.
- Chislehurst and Sidcup, Kent.**—Supply and erection of approximately 3,000 super. yd. of beam and hollow pot flooring, together with in situ R.C. staircases and cantilever balconies for 82 dwellings at Northcote Road housing site. W. B. Farrow, surveyor—Windsor Constructions, Ltd., 98 London Road, Mitcham, Surrey, £8,550. Work commencing next month.
- Consett, Dur.**—Erection of office accommodation, Consett goods depot for British Railways—R. E. Coleman, Ltd., High Street, Carrville, Dur.
- Crickhowell, Brecons.**—Exterior painting and colourwashing of 76 houses on sites at Brynglas, Gilwern; Danycoed, Clydach; St. Michael's Close, Cwmdu; and Groesfordd. Llanygidr, for R.D.C. Merton Jones and Richards, architects, St. Mary's Chambers, Abergavenny, Mon.—F. A. Webb, Leominster, £1,500 (accepted); I. J. Morris and Son, £1,700; Decorcraft, £1,650.
- Croydon, Surrey.**—Following for B.C.: Adaptations to form a science laboratory at the Lanfranc Secondary Girls' School in Thornton Road—G. F. Dean and Son, 65 Clock House Road, Beckenham, £1,463 (accepted); E. Holbrook and Son (Croydon), Ltd., £1,565; J. Tarpey and Son, Ltd., £1,589; Ives and Co. (Contractors), Ltd., £2,007. Work commenced.
- Conversion of two classrooms into a kitchen and dining hall at Duppas Primary School in Goodwin Road, Waddon—G. F. Dean and Son, £4,632 (accepted); R. D. Hope and Co., Ltd., £5,557; R. Ashworth and Son, £6,855. Work commenced.
- Erection of two temporary transferable classrooms at the Overbury Secondary Mixed School at Overbury Crescent, New Addington—Panel-Lastic Construction Co., Ltd., Belvedere Works, Railway Terrace, Feltham, Middx., £2,465 (accepted); J. E. Lesser and Sons, Ltd., £2,979; R. H. Hall and Co., £3,065; Terrapin, Ltd., £3,315; Medway Buildings and Supplies, Ltd., £3,460. Work commenced.
- Cumberland.**—Third instalment of Thursby Primary School for C.C.—D. W. Dickenson, county architect—George Cowen and Sons, Ltd., Old Raffles, Wigton Road, Carlisle.
- Darlington, Dur.**—College of further education, phases 2 and 3, for B.C., comprising the erection of a four-storey steel-framed building containing approximately 74,000 sq. ft. of laboratories, classrooms, assembly and dining halls—F. Shepherd and Son, Ltd., Lion House, Pottergate, Richmond, Yorks., £228,411; Eric A. Tornbohm, borough architect—steelwork—Donald Clerk and Son, Ltd., Caledonian Steelworks, Rutherglen, Glasgow, £31,528; heating—G. N. Haden and Son, Ltd., 79 Quayside, Newcastle upon Tyne, £31,520; electrical—J. Paterson and Co., Ltd., 17 Coniscliffe Road, Darlington, £22,104. Work is likely to commence on May 1.
- Doncaster, Yorks.**—Erection of a pavilion at Elmfield Park for B.C.—Beckett and Wood (Builders), Ltd., 18 Cemetery Road, Doncaster, £4,798 (recommended, subject to Ministry approval).
- Doncaster, Yorks.**—Erection of the final phase of the redevelopment scheme at East Laith Gate for Copplands (Doncaster), Ltd. Foster-Smith, Wallis and Anderton, architects, 1 Regent Terrace, Doncaster—T. Jenkinson and Sons (Doncaster), Ltd., Bentley, Doncaster. Estimated cost £25,000.
- Dunfermline, Ffies.**—Erection of a 60,000 sq. ft. factory for Lyle and Scott, Ltd.—Taylor-Woodrow (Construction), Ltd., Ruislip Road, Southall, Middx. Estimated cost £300,000. Ian Burke, Martin and Partners, architects, 11 South Tay Street, Dundee, and D. I. Burchell and Partners, quantity surveyors, 26 South Tay Street, Dundee. Work has started.
- Ealing, Middx.**—Improvements, repairs and redecoration at Bedford Hall, Bedford Road, for C.C.—Norman Wright (Builders), Ltd., Portland House, Portland Road, London, S.E.25, £2,499 (recommended).
- Eastbourne, Sussex.**—Following for B.C.: Construction of head groundsman's store and workshop at Princes Park—Carn and Son, 90a Tideswell, Eastbourne, £7,303 (recommended); A. Hudson and Son (Builders), Ltd., £7,887; C. A. Rosamond, Ltd., £8,137; A. J. Bessant, Ltd., £8,374; J. G. Robinson and Sons, Ltd., £9,384; W. Llewellyn and Sons, Ltd., £9,988; G. Gower and Sons, Ltd., £10,140.
- Erection of new entrance and office accommodation at Devonshire Park—C. A. Rosamond, Ltd., £8,714 (recommended); W. Llewellyn and Sons, Ltd., £8,935; A. Hudson and Son (Builders), Ltd., £9,143; A. J. Bessant, Ltd., £9,264; Carn and Son, Ltd., £9,337; G. Gower and Sons, Ltd., £9,581.
- Flintshire.**—Extensions to Greenfield C.P. School for Co. E.C. W. Griffiths, county architect—George Eastwood and Sons, Ltd., The Briers, Aston Hall Lane, Hawarden, near Chester, £19,891.
- Gateshead, Dur.**—Erection of boys' grammar school and Fell Dyke Junior School for E.C.—G. F. Winters, borough engineer—Middleton and Co., Ltd., Queen Alexandra Bridge Approach, Sunderland, £253,658 and £83,09, respectively.
- Glasgow.**—Erection of a store at Argyle Street for Greftons, Ltd. Walter Underwood and Partners, architects, 12 Claremont Gardens, Glasgow, C.3—Tersons, Ltd., 4 Dollis Park, London, N.3. Estimated cost £137,000.
- Harrietsham, Kent.**—Extension of factory at Dickey Lane for the Marley Tile Co., Ltd.—John Laing and Son, Ltd., Mill Hill, London, N.W.7.
- High Wycombe, Bucks.**—Following for B.C.: Erection of 14 garages at Hicks Farm estate—G. A. Griffiths and Son, Verney Avenue, High Wycombe, £2,100; provision of public conveniences at Desborough Recreation Ground and nine garages at Hawthorne Road—R. Cooper, Dorking, Surrey, £1,405 and £1,350, respectively (recommended, subject to Ministry approval).
- Hinckley, Leics.**—Erection of an office block, providing 16,000 sq. ft. of accommodation, fronting Rugby Road, for Sketchley, Ltd.—Turiff Construction (Warwick), Ltd., Budbrooke Road, Warwick. J. H. D. Madin, architect, 83/85 Hagley Road, Edgbaston, Birmingham, 16. L. C. Wakeman and Partners, quantity surveyors, 11/12 Highfield Road, Edgbaston, Birmingham, 15, and Roy Bolsover, consulting structural engineer, 103 Hagley Road, Birmingham, 16. Work about to commence.
- Hove, Sussex.**—Reconstruction of a block of flats, restaurants and garages—H. Fairweather and Co., Ltd., St. James's Lane, London, N.10. Estimated cost £600,000.
- Ipswich, Suffolk.**—Erection of the first instalment of the Crantry Secondary Modern School for B.C. Johns, Slater and Howard, architects, 32 Foundation Street—G. A. Kenney and Sons, Ltd., P.O. Box 21, Army Works, Sprooughton Road, Ipswich, £304,480. Work commenced.
- Islington.**—Construction of foundations to car park, shops and offices proposed at Highgate Hill, London, N.19, for Jands Property Co., Ltd. Oscar Garry and Partners, architects, 66 Gloucester Place, London, W.1—Tersons, Ltd., 4 Dollis Park, London, N.3. Estimated cost £200,000.
- Lambeth.**—Erection of a building works depot, etc., on site 137, Binfield Road and Lansdowne Way for B.C.—J. Jarvis and Sons, Ltd., 259 Vauxhall Bridge Road, London, S.W.1 £53,378 (recommended); Thomas and Edge, Ltd., £55,341; Direct Labour Organisation, £55,691; A. 1. Rowley (London), Ltd., £55,800; Bridge Walker, Ltd., £57,200; W. J. Sims, Sons and Cooke, Ltd., £58,121.
- Leeds.**—Following for City Council: Erection of sports pavilions at King George's Playing Fields—Fredericks Timber Buildings, Ltd., £2,584; New Wortley Recreation Ground and Potternnewton Park—J. H. Wood and Co., Ltd., main contractor, 20 St. Columba Street, Leeds, 2, £9,213; supply and erection of timber sectional superstructures—Frank W. Toogood, Ltd., Ashton Vale, Bristol, 3, £6,022; public conveniences at Armley Park—A. Knapp and Sons, Wortley Moor Road, Leeds, 12, £2,617 (recommended).
- External painting of 6,664 properties—Direct Labour (recommended). Estimated cost £87,490.
- One block of four and one block of seven garages at Iveson Approach—N. B. Bell and Co., Ltd., Frankland Terrace, Leeds, 7, £1,948 (recommended extension of contract, subject to Ministry approval).
- Liverpool.**—Erection of the Anfield Commercial College for City Council—Tysons (Contractors), Ltd., Dryden Street, Liverpool, 5, £274,300 (recommended).
- Manchester.**—Following for City Council: Foundation works and supply and erection of a paper shed at Water Street Depot—J. E. Stephenson and Co., Ltd., 312 Stockport Road, Manchester, 13, and Concrete Utilities, Ltd., Kirkby Trading Estate, Marl Road, Liverpool, respectively; classroom block in extensions at Didsbury Training College—F. J. Gibson (Builder), Ltd., Riverside Works, Manchester Road, Wilmslow; structural steelwork for street paviors workshop at Manchester College of Building—Basil Williams (Engineers), Ltd., Springhill Works, Nantwich Road, Tarporley, Ches.; construction of a school meals scullery at Chorlton C. of E. School—J. T. Lawlor and Co., Ltd., 9 Lower Byrom Street, Manchester, 3; 43 additional prefabricated garages at Partington, Hazel Grove and Bramhall—Four Square Industries (Middlewich), Ltd., Newton Works, Middlewich (recommended).
- Erection of new meat centre, including an abattoir, wholesale market and cold store—J. Gerrard and Sons, Ltd., Swinton. Estimated cost £21m. (recommended).
- Middlesbrough, Yorks.**—Erection of following for B.C.: Community and branch library at Whinney Banks and community centre at Berwick Hills. P. R. Middleton and Partners, architects, 111 Albert Road—Charles Tennet, Ltd., Church Road, Stockton-on-Tees, £36,972, and Smith and Twentymen, Ltd., 32 Bridge Road, Stockton-on-Tees, £21,308, respectively.
- Health clinic at Penrith Road, Berwick Hills. J. A. Kenyon, borough engineer—Marsh (Builders), Ltd., Grangefield Road, Stockton-on-Tees, £17,922.
- Middlesex.**—Supply and erection of steel and glass partitioning in the power station at Mogden Works for C.C.—Abix (Metal Industries, Ltd.), Pool Road, West Molesey, Surrey, £896 (recommended).
- North Riding.**—Following for C.C.: Stage II of the new Sir William Turners School, Redcar. Leathart and Son, architects, 49 Welbeck Street, London, W.1—C. Tennet, Ltd., Church Road, Stockton-on-Tees, £127,000.
- Proposed infants' school at Thornaby-on-Tees. R. A. Williams, county architect—Skeen and Partners, George Street, Thornaby-on-Tees, £62,222.
- North Riding.**—Erection of county modern school at Loftus for E.C.—Richard Costain (Construction), Ltd., Marton Road, Middlesbrough, £294,000. Hadfield, Cawkwell and Davidson, architects, 17 Broomgrove Road, Sheffield, 10, and Wheatley, Brydon and Partners, Ltd., structural engineers, Federal House, 2 Down Place, London W.6.
- Northumberland.**—Additions to Blyth Beside County Secondary School for C.C. C. C. Brown, county architect—R. Bowey and Son, William Street South, Gosforth, £15,118.
- Northumberland.**—Erection of primary school at West Wylam and junior school, Spelvit Lane, Morpeth, and additions to Walbottle Campus School, for C.C. C. C. Brown, county architect—R. W. Bell and Co., Ltd., Mistletoe Road, Jesmond, Newcastle upon Tyne, £62,000, Cawood Wharton and Co., Ltd., Harrogate, £25,000, and J. Robson, 3 Ord Terrace, Stakeford, Northumb., £19,075, respectively.
- Parkstone, Dorset.**—Warehouse and office building at Broom Road for The British Drug Houses, Ltd.—John Laing and Son, Ltd., Mill Hill, London, N.W.7.
- Penrith, Cumb.**—Erection of mortuary at Hunter Lane for U.D.C.—John Kitchen, Lowther Terrace, Penrith, £4,600.
- Port Talbot, Glam.**—Extensions and alterations to the Cymmer Afan Secondary Modern School for C.C.—W. E. Chivers and Sons, Ltd., Mill Lane, Western Avenue, Landaff, Cardiff. Frederick D. Williamson, architect, Oakwood Chambers, Station Road, Port Talbot; and Mildred and Howells, quantity surveyors, 22-23 High Street, Swansea.
- Radnorshire.**—Erection of a primary school at Newbridge-on-Wye for C.C. J. A. McRobbie, county architect—W. E. Morris, Park Road, Builth Wells, Brecons, £28,321.
- Radnorshire.**—Erection of rural science block at the Secondary School, Knighton, for C.C. R. J. A. Wilson and Macmillan, architects and surveyors, 4a St. Peter's Street, Hereford—J. Richards and Sons, West Street, Knighton, £6,984 (accepted); E. Deacon, Ltd., £8,891; W. Powell and Sons, Ltd., £8,180. Work has commenced.
- Reading, Berks.**—Erection of Tilehurst Primary School for B.C.—David Lesley (Con-



tractors), Ltd., 23-25 Blagrove Street, Reading, £53,292 (recommended, subject to M.E. approval).

**Rugby, War.**—Construction of a paddling pool in reinforced concrete, with brick shelter and pump house, adjoining the Rugby recreation ground, for B.C.—C. T. Adams (Builders), Ltd., Temple Street, Rugby, £5,245.

**Sheffield.**—Following for City Council: Exterior painting work at schools—Wisewood—R. Austin, 188 Halifax Road, Sheffield, 6, £970; Pipworth Road—A. B. Sanderson, 151 Manor Park Crescent, Sheffield, 2, £810; Hatfield House Lane—F. A. Tinker and Son, Ltd., 22 Spital Hill, Sheffield, 4, £889; interior painting work at schools—Morley Street—Ackroyd and Abbott, Ltd., 47 Willoughby Street, Sheffield, 4, £1,615; Hinde House Secondary, Malin Bridge, Marcliffe, Whitby Road and Carlfield—A. Clack, 353 Bramall Lane, Sheffield, 2, £1,890, £822, £1,382, £1,357 and £1,720, respectively; Springfield—H. W. Clack, 688 Chesterfield Road, Sheffield, 8, £1,547; Firs Hill, Meynell Road, Upperthorpe and All Saints—P. Clixby, 252 Gleadless, Sheffield, 2, £1,200, £1,800, £1,500 and £900, respectively; Pye Bank—W. Ibbotson, 367 Stannington Road, Sheffield, 6, £1,456; Greystones—W. Redmile and Sons, Ltd., 118 Alderson Road, Sheffield, 2, £1,600; Arbourthorne Central, Bradway, Intake, Longley, Meersbrook Bank, Silverdale Secondary, Stand House, Totley, St. Catherine's, St. John's (Decorators), Ltd., 187 London Road, Sheffield, 2, £889, £1,651, £974, £1,279, £872, £2,139, £757, £583, £766, £614 and £698, respectively; Manor and St. George's—A. B. Sanderson, 151 Manor Park Crescent, Sheffield, 2, £1,350 and £1,025, respectively (recommended).

Conversion of laundry building at The Moss, Limb Lane, for use as a flat—Wilson and Middleton, 101 Leigh Street, Sheffield, 9, £1,537; repairs to 19-25 (odd) and 1-4 (consecutive) in Court 5, Little London Road—The Meersbrook Concrete Co., 31 Sherrington Road, Sheffield, 7, first stage works, £769; and second stage works, £937; 22-28 (even) and 1-4 (consecutive) in Court 6, Little London Place—Peter Proctor (Builders), Ltd., £645 and £792; 27-33 (odd) and 1-4 (consecutive) in Court 7, Little London Road—P. May and Son, 63 Thornbridge Road, Sheffield, 1, £171 and £986 (recommended).

Re-roofing and repair of a stone-built farm at Hazelbarrow Farm, Norton—Direct Labour (recommended). Estimated cost £2,015.

**Shrewsbury, Salop.**—Construction of new nurses' accommodation at the training school at Shelton Hospital for the Birmingham Regional Hospital Board—T. G. Construction, Ltd., Wolverhampton, £120,000. Work about to commence.

**Southwark.**—Alterations to the laundry at St. Peter's House, Queen's Row, and provision of additional tenants' stores for B. C. Greenaway and Son, Ltd., 265 Lordshin Lane, London, S.E.22, £3,207 (recommended); J. A. Dumay and Co., £3,610; Thomas and Edge, Ltd., £4,410.

**Tewkesbury, Glos.**—Erection of a building to accommodate new filtration plant; the construction of new filter tanks and upward flow sedimentation tanks at Mythe waterworks for the Cheltenham and Gloucester Joint Water Board. The work comprises reinforced concrete work for 12 Candy rapid gravity filters, 12 ovrimalid sedimentation tanks, general building work for the R.C. framed filter house, the laying of associated watermain and drains, and all necessary excavation. W. E. C. Bird and I. H. Goodridge, joint engineers to the Board—Avoomouth Plant and Construction Co., Ltd., St. Andrews Road, Avoomouth, Bristol, £197,383 (subject to Ministry approval).

**Thornaby-on-Tees, Yorks.**—Alterations to Thornaby-on-Tees British Legion Club, F. B. Swainston, architect, 28 Albert Road, Middlesbrough—Thomas Rea and Son, Ltd., Eldon Street, Thornaby-on-Tees, £8,500.

**Wardsworth.**—External painting works to dwellings, as follows, for B.C.: 104 dwellings at Notre Dame estate—J. W. Cannon and Co., William Street, Carshalton, Surrey, £1,603 (accepted); Allard and Saunders, Ltd., £1,406; M. Howard (Mitcham), Ltd., £2,700; Anglo-Scottish Construction Co., Ltd., £3,343; 111 dwellings at Wimbledon Park estate—C. Ash and Son, Ltd., 71c South Side, London, S.W.4, £2,159 (accepted); Franks and Co. (Builders), Ltd., £2,777; J. S. Daniels and Sons, £3,870; C. Crook and Sons, Ltd., £4,472; Baker and Patrick, £4,622.

**Wednesbury, Staffs.**—External painting of 756 houses for B.C.: (Section a) 141 and (b) 147—G. E. Llewellyn, Lynwood, Broad Lane, Essington, near Wolverhampton—(a) £1,399 and (b) £1,458; (c) 160 and (d) 174—H. L. Mason, 516 Sutton Road, Walsall—(c) £1,520 and (d) £1,783; (e) 134—C. Taylor, 32 Irvine Road, Bloxwich, Walsall, £1,340 (recommended).

**Welwyn Garden City, Herts.**—Extensions and alterations to Council offices for U.D.C. C. H. Elson and Partners, architects, 10 Lower Grosvenor Place, London, S.W.1—Cramb and Dean (Herts), Ltd., Birchwood Industrial Estate, Hatfield, Herts., £45,170. Work to commence May 1.

**West Hartlepool, Dur.**—Erection of biology department at Brierton Secondary Modern School for T.C. Bell and Spouse, architects, 10 Scarborough, Street—W. W. Brazell, Ltd., Raeburn Street, West Hartlepool, £6,000.

**West Hartlepool, Dur.**—Reconstruction of the Greatham Hospital for the Trustees. Francis F. Johnson, architect, 16 High Street, Bridlington—G. W. Lazenby and Co., Ltd., Ferryhill, Co. Durham, £54,138.

**West Sussex.**—Extension of Boundstone Secondary School, Lancing, for Co. E.C.—Keith Andrew and Co., Ltd., 7 Warwick Street, Worthing, £136,761 (subject to Ministry approval).

**Widnes, Lancs.**—Erection of a factory for the Golden Wonder Crisp Co.—main contractor, Myton, Ltd., Western House, Western Avenue, Ealing, W.5; main sub-contractors, Taylor Woodrow Industrial Estates, 41 Welbeck Street, London, W.1. Estimated cost £300,000. J. and F. Johnston, architects, 5 John's Place, Leith, Edinburgh, 6; J. P. Storrer, quantity surveyor, 31 York Place, Edinburgh, 1; Gunn and Anderson, heating and special drainage, 39 Melville Street, Edinburgh, 3; Phillips Structures, structural work, Western House, Western Avenue, Ealing, W.5. Work commenced.

**Wigton, Leics.**—External repainting of 225 houses, 25 bungalows and 19 garages in one or two contracts (part 1—110 houses and 25 bungalows; and part 2—115 houses and 19 garages) for U.D.C. F. Isherwood, engineer and surveyor—T. E. Cundy and Sons, Ltd., Leicester, part 1, £1,320 and part 2, £1,232 (recommended). Work commencing May.

**Willenden, Middx.**—Following for B.C.: Plastering work at Ellerslie, Old People's Home—W. A. Telling, Ltd., 154 Field End Road, Eastcote, Pinner, £2,179; rebuilding of boundary wall at St. Mary's Church—P. R. Atkins, Ltd., 8 Church Road, London, N.W.10, £910; major repairs at 39 Calcott Road and 83 Walm Lane—Claude Bastable, Ltd., 61 Station Road, London, N.W.10, £1,237, and Hunt Bros., 129 Colindeep Lane, London, N.W.9, £1,079, respectively (recommended).

**Witney, Oxon.**—External repainting of following houses for R.D.C.: (Group 1) Asthall, Burford Shilton, Swinbrook—68; and (2) Bampton, Clanfield—72—S. Koshmar, 43 Perry Road, New Marston, £1,113 and £1,374, respectively; (3) Carterton, Brize Norton, Curbridge, Minster Lovell—69; (4) Aston, Bampton, Ducklington, Lew—66; (6) Hanborough, Freeland, Eynsham—68; (7) Bladon, Cassington—64—Cordial Decorating Co., 14 Marlborough Place, Eynsham, £848, £777, £800 and £764, respectively (5) North Leigh, Ramsden—60; and (8) Northmoor, Standlake, Stanton Harcourt, South Leigh—79—S. Gregorek, 20 Wytham View, Eynsham, £742 and £1,003, respectively.

**Worthing, Sussex.**—Following for B.C.: Alterations to the centre pavilion and the erection of a café at Beach House Park—Field Place (Builders), Ltd., Peacock House, Goring Road, Goring-by-Sea, £11,133 (recommended, subject to reductions).

Supply of 15 beach cabins—William Weller and Son, Ltd., West Street, Lancing, £87 15s. each (recommended).

#### CLOTHING AND TEXTILES

**Tunbridge Wells, Kent.**—Supply of (a) six summer and winter uniforms for waterworks inspectors and (b) 78 sets of short jackets, trousers and sou'westers for B.C.—Montague Burton, Ltd., 29 Calverley Road, Tunbridge Wells, £160, and George Cohen Sons and Co., Ltd., £177, respectively (recommended).

#### DEMOLITION

**Battersea.**—Demolition of buildings, including air-raid shelters and provision of fencing at Battersea High Street 1 scheme, north section, for B.C.—J. E. Walkley, Ltd., 7 Tonsley Hill, London, S.W.18, £1,548 (recommended).

**Bermondsey.**—Demolition of fences, gates and breaking-up and clearing away site concrete 8-12 Glebe Street, for B.C.—W. H. Penfold and Sons, Ltd., Belmont Grove, Belmont Hill, London, S.E.13, £100 (recommended).

**Bury, Lancs.**—Demolition of 1, 2, 3, 4 and 5 Brickeroff Terrace for B.C.—T. B. Tomlinson, Schofield Street Works, Heywood, Lancs.

**Fulham.**—Demolition work at blocks H and J, Fulham Court, for B.C.—F. W. P. Dyett, £3,215 (recommended).

**Manchester.**—Demolition of building at Davyhulme sewage works for City Council—M. G. Ryan, 18 Summit Street, Heywood, Lancs. (recommended).

**Poplar.**—Demolition and clearance of 4 St. Stephens Road and 47, 49, 51, 53 and 55 Tredegar Road for B.C.—Frank Valori, Ltd., 34 Christchurch Road, London, S.W.2, £139.

**St. Marylebone.**—Demolition and associated works at Freshwater Place for B.C.—Willment Bros., Ltd., 462 London Road, Isleworth, Middx., £1,947 (recommended).

**Sheffield.**—Demolition of the following for City Council: Certain properties in Brook Street and Sarah Street, Netherthorpe—J. Childs, 172 Manor Lane, Sheffield, £350; Park Hill open space, stages 3 and 4—S. Williams, 462 Coleridge Road, Sheffield, 9, £375 and £195, respectively; (1) 19-21 Matilda Street, (2) 5 Bishop Street, and (3) 1-11 Bramwell Street and 97-99 St. Philip's Road—Sheffield and Rotherham Dismantling Co., Ltd., 114 Abbeyfield Road, Sheffield, 4—(1) £300, (2) £200, and (3) £120 (recommended).

**Willesden, Middx.**—Demolition of following for B.C.: (1) 7-8 Cambridge Gardens; (2) Kilburn Square (phase D); and (3) 46-60 Albert Road; and (4) 40 Stonebridge Park—Haslam and Whymark, Roundwood Road, London, N.W.10—(1) £134, (2) £674, and (3) £212, respectively, and (4) L. Perlin, Ltd., 45 Mount Pleasant Road, London, N.W.10, £193 (recommended).

**Woolwich.**—Demolition of 19 and 20 Borgard Road and 22 Frances Street for B.C.—E. W. Spears and Co., Ltd., 53 Callander Road, London, S.E.6, £148 (recommended); W. H. Penfold and Sons, Ltd., £270; A. Penfold and Sons, Ltd., £160; Chas. Griffiths, Ltd., £270; Gorst and Co., Ltd., £163; J. W. Doye and Co., £157.

#### ELECTRICAL

**Bromley, Kent.**—Supply, installation and alteration of equipment for the improvement of traffic control signals at the junction of High Street with Market Square for B.C.—Automatic Telephone and Electric Co., Ltd., Strowger House, Arundel Street, London, W.C.2 (recommended, subject to C.C. approval). Estimated cost £835.

**Fulham.**—Electrical modernisation works in pre-war dwellings, as follows, for B.C.: 265 dwellings at Tooting estates—Lektrix Installations, Ltd., 820a Garratt Lane, S.W.17, £2,040 (accepted); Elraes, Ltd., £2,120; S. White (Streatham), Ltd., £2,180; J. L. Shadwell and Co., £2,616; John Lightfoot, Ltd., £3,230; 217 dwellings at Clapham estates—S. White (Streatham), Ltd., 109 Mitcham Lane, London, S.W.16, £2,506 (accepted); Lektrix Installations, Ltd., £2,640; Elraes, Ltd., £2,750; Holiday Hall and Stinson, Ltd., £2,775; 157 dwellings at Furzedown estate—L. H. Carter (Electrical), Ltd., Worcester Park, Surrey, £2,238 (accepted); S. White (Streatham), Ltd., £2,538; Elraes, Ltd., £2,561; John Lightfoot, Ltd., £2,750; 272 dwellings at Henry Prince estate—Elraes, Ltd., 46 Balham High Road, London, S.W.12, £1,765 (accepted); Lektrix Installations, Ltd., £1,850; S. White (Streatham), Ltd., £1,900; John Lightfoot, Ltd., £2,374; J. L. Shadwell and Co., £2,452.

**Manchester.**—Electrical installation at (a) Langley estate (contract 242F), and at (b) Holland Street and Miles Platting (284A), and Mill Street, Ancoats (344), for City Council—(a) Bates Electrical Services, Salford; and (b) G. W. Henry, Ltd., 10 Henry Street, Brighouse, Yorks. (recommended).

**South Shields, Dur.**—Electrical work for Whiteleas Junior Mixed School for E.C.—Gee and Brown, Ltd., Sunderland, £3,617.

**Willesden, Middx.**—Electrical installation at South Kilburn (blocks S and U) for B.C.—Direct Labour (recommended extension of contract). Estimated cost £3,100.

#### FENCING

**Leeds.**—Erection of chain link fencing at King George's Playing Field for City Council—Procter Bros. (Wireworks), Ltd., Monkbridge Mills, Whitehall Road, Leeds, 12, £1,072 (recommended).



## GAS AND WATER SUPPLY

- Ballymena, Antrim.**—Supply, distribution, laying and jointing of approximately 5,010 lin. yd. of 3in. diameter spun-iron pipes and specials, contract 18, for R.D.C. R. Ferguson and S. McIlveen, consulting engineers, 15 College Gardens, Belfast—McFadden and Hodges, Kittal, Mosside, Ballymoney, £7,800.
- Betws-y-Coed, Caerns.**—Water supply improvement scheme for U.D.C. Charles J. Lomax and Son, consulting engineers, 68 Barton Chambers, Barton Arcade, Deansgate, Manchester, 3—Roger Hughes and Co., Ltd., Llysfaen Road, Old Colwyn, Denbighs. Work to commence May.
- Bolton, Lancs.**—Filtration plant for swimming bath at Smithills Technical School for B.C.—Bell Bros. (Manchester), Ltd., Denton (recommended).
- Leeds.**—Supply of (a) various special pipes; and (b) 200 lin. rotary meters for City Council—(a) Staveley Iron and Chemical Co., Ltd., Chesterfield, Derby, £2,167; and (b) Leeds Meter Co. Ltd., Tower Works, Leeds, 12, £1,000 (recommended).
- Manchester.**—Cold water, gas and hot water installations and water pressurisation installation at Central Technical College for City Council—G. and J. Seddon, Ltd., Little Hulton, Walkden, Manchester, and G. C. Pillinger and Co., Ltd., Sutton, Surrey, respectively (recommended).
- Reading, Berks.**—Supply of water pipes, standard pipes and water butts for the provision of a water supply to the main part of Waterloo Meadow allotments, Elgar Road, for B.C.—British Estate Services, Ltd., 132 Bath Road, Reading, £817 (recommended).
- Sheffield.**—Following for City Council: Supply of pumping equipment for the Leeds distribution system at Brayton Barff pumping station—Sulzer Bros. (London), Ltd., 31 Bedford Square, London, W.C.1, £18,255; cleaning and concrete lining of approximately 4,200 lin. yd. of 24in. diameter water mains—Tate Pipe Lining Processes, Ltd., Quebec Road, Henley-on-Thames, £1 6s. per yd. (recommended).
- West Cornwall.**—Following for Water Board: Herbert Lapworth and Partners, consulting engineers, 25 Victoria Street, Westminster, S.W.1. Drift water scheme (contract 7)—pipelaying—(section A) E. Thomas and Co., Ltd., Kings Street, Falmouth, £78,211; and (b) F. W. Hunt (Cornwall), Ltd., Redruth, £38,903; Hayle water scheme (contract 11)—Phillack Towns reservoir and pipelaying—F. W. Hunt (Cornwall), Ltd., £18,933. Work to commence shortly.
- Witham, Essex.**—Water supply, Howbridge Road development for U.D.C.—Thomas Carey and Son, Ltd., Station Buildings, East Finchley, N.2, £3,420.
- Witney, Oxon.**—Water supply of North Leigh and Handborough for R.D.C.—Howard Humphreys and Sons, consulting engineers, West Street, Epsom—Thomas Carey and Son, Ltd., Station Buildings, East Finchley, £23,230.

## HARBOURS, PIERS AND SEA DEFENCE WORKS

- Belfast.**—Construction of a deep water concrete piled wharf and ancillary works at the west side of Victoria Channel, extension of Stormont Wharf for the Harbour Commissioners—Charles Brand and Son, Ltd., 33 Welbeck Street, London, W.1. Work is expected to start in June.
- Worthing, Sussex.**—Sea defence works during 1961-62 for B.C.—Z. Peskett and Sons, Ltd., Angmering, Littlehampton (recommended extension of contract). Estimated cost £5,700.

## HEATING AND VENTILATING

- Croydon, Surrey.**—Renewal of heating with oil-fired boilers at the Selhurst Grammar School for Boys, The Crescent, for B.C.—E. C. Perry, Ltd., 4 Devonshire Road, Forest Hill, S.E. 23, £16,302 (accepted); Norris Warming Co., Ltd., £16,695; K. R. Plowright and Co., Ltd., £17,677; C. W. Evans and Sons (London), Ltd., £20,193; Heating and General Engineering Co., Ltd., £20,844. Work commenced.
- Manchester.**—Engineering services for the hostel at Didsbury Training College for City Council—Mumford, Bailey and Preston, Ltd., Liverpool (recommended).
- Middlesex.**—Supply and installation of heating equipment in new buildings at Deephams Works, sub-contract EMD.7, for C.C.—Steam and Air Engineering, Ltd., Dalston Gardens, Stanmore, £14,574 (recommended).
- Newmarket, Cambs.**—Improvement works, consisting mainly of hot water installations and indoor lavatories, to 50 pre-war houses in the parishes of Burwell, Fordham, Isleham, Kennett, Swaffham Prior and Wicken,

for R.D.C.—Norman Mayes, Ltd., High Street, Moulton, near Newmarket, £7,656 (accepted).

- Sheffield.**—Supply and installation of a gas-filled steam boiler plant at the Welfare of the Blind Department for City Council—Wright Bros. Partnership, Ltd., £798 (recommended).
- South Shields, Dur.**—Heating installation (second stage) for proposed St. Cuthbert's R.C. Secondary School for the Promoters—Brightside Heating and Engineering Co., Ltd., Lambton Road, Newcastle upon Tyne, £4,895.
- Mechanical engineering services for Whiteleas Junior Mixed School for E.C.—Steel Engineering Installations, Ltd., Sunderland, £9,108.
- Willesden, Middx.**—Heating installation at South Kilburn (blocks S and U) for B.C.—Comyn Ching and Co. (London), Ltd., 15 Shelton Street, London, W.C.2 (recommended, extension of contract). Estimated cost £1,900.

## HOUSING SCHEMES

- Bracknell, Berks.**—Seventeen-storey hexagonal-shaped point block of flats with a concrete main frame and underground covered garage awning, together with a new community centre and car park at Easthampstead, for the Development Corporation. Ove Arup and Partners, architects and consulting engineers, Fitzroy Street, London, W.1—Pauling Construction, Ltd., 109 Station Road, Sidcup, Kent, £294,686.
- Bristol.**—Two five-storey blocks of flats and maisonnettes at Barton Hill for City Council—J. Laing and Son, Ltd., Mill Hill, London, N.W.7.
- Canterbury, Kent.**—Three blocks of eight maisonnettes at Spring Lane estate for City Council. John L. Berbiers, city architect—Hawkes Construction, Ltd., 25 Railway Street, Gillingham, £51,690. Work to commence immediately.
- Chesterton, Cambs.**—Twelve bungalows at Histon for R.D.C. H. Jackson, architect—M. Wynn (Builders), Ltd., 12 The Green, Histon, Cambridge. Work commencing this month.
- Darwen, Lancs.**—Thirty-three Homeville traditional units at St. Albans Road for B.C.—Middleton and Co. (Contractors), Ltd., Trout Street, Preston.
- Doncaster, Yorks.**—One pair of houses at Cantley Park for B.C.—Frank Moss and Sons, Ltd., 33 Partridge Flatt Road, Bessacarr, Doncaster, £3,960 (recommended, subject to Ministry approval).
- Folkestone, Kent.**—One pair (contract 1) and one pair (contract 2) of three-bedroom houses at Tennyson Place for B.C.—May and Castle, Bradstone Road, Folkestone, £3,919 and £4,160, respectively (recommended in lieu of previous tender, subject to Ministry approval).
- Hackney.**—Twenty-two flats and ancillary buildings at 100-106 Mount Pleasant Lane, for B.C.—Direct Labour (recommended). Estimated cost £68,460.
- Leeds.**—Following for City Council: One hundred and eighty-four flats in four 12-storey point blocks and 45 garages at Poplar estate—F. Shepherd and Son, Ltd., Blue Bridge Lane, York, £465,352; 590 traditional dwellings and 215 garages at Raynville Road, Oldfield Lane and Belle Isle—Reema (Chesterfield), Ltd., Starforth Lane, Chesterfield, Derby, £1,131,159; two 12-storey blocks of flats and one block of 16 four-storey maisonnettes and 47 garages at New Carlton—George Wimpey and Co., Ltd., Gelderd Road, Leeds, 12, £269,515 (recommended, subject to Ministry approval).
- One block of 10 type 1 houses and one block of 12 four-storey maisonnettes at New Carlton and 13 traditional bungalows at Manorfield—N. B. Bell and Co., Ltd., Frankland Terrace, Leeds, 7, £41,141 and £19,462, respectively (recommended extension of contracts, subject to Ministry approval).
- Piling work for four-storey maisonnettes at Wykebridge (contract 835)—Holmpress Piles, Ltd., Leeds Road, Hull (recommended).
- Manchester.**—Following for City Council: One hundred and seventy-four dwellings in three blocks of 12-storey flats at Hollyhedge Roundabout (contract 350)—John Laing and Son, Ltd., 42 Whitworth Street, Manchester, 1 (recommended, negotiated tender).
- Asphalt works to roofs and balconies at (contract 323) Greenwood Road East, Wythenshawe; (330) Partington; and (326A) Miles Platting; and asphalt flooring work at (242F) Langley; and (346) Crossacres, Wythenshawe—R. H. Lord and Son (Asphaltners), Ltd., 2 Rivington Road, Salford, 6; thermoplastic floor tiling work at (284) Bradford Road; (284A) Holland Street, Miles Platting; (326A) and C) Miles

Platting; and (344) Mill Street, Ancoats—British Moulder, Ltd., 22 Upper Camp Street, Salford, 7 (recommended).

- Matlock, Derbys.**—One hundred and forty-two Homeville traditional houses and flats at Hurst Farm estate for U.D.C.—Henry Boot and Sons (Building), Ltd., Sheffield.
- Norwich.**—Twenty-four houses, 20 maisonnettes and 37 garages (group I), and 24 houses, 20 maisonnettes, 12 flats and 12 garages (group II) at Heartsease estate for City Council—T. Gill and Son (Norwich), Ltd., Hall Road, Norwich, £99,876, and Ford and Carter, Ltd., Baltic House, Mountergate, Norwich, £113,248 (recommended, subject to Ministry approval).
- Reading, Berks.**—Twenty-four one-bedroom flats and 16 garages at Dwyer Road and 24 one-bedroom flats and 24 garages at Whitley Wood Road, for B.C.—Orchard and Peer (London), Ltd., 32 Leopold Road, London, S.W.19, £40,100 and Boyd and Murley, Ltd., 87 London Street, Reading, £45,964, respectively (recommended, subject to Ministry approval).
- Royston, Yorks.**—Seventy-six Homeville traditional houses and bungalows at Doles No. 4 site for U.D.C.—T. Potter and Sons, Barnsley, Yorks.
- Salford, Lancs.**—Two hundred and twenty-six flats and 72 maisonnettes in the Islington Street redevelopment area for City Council. Erection and painting—Direct Labour (recommended). Estimated cost £722,592 and £23,500, respectively.
- Reinforced concrete foundations, frames and piling—Truscon, Ltd., Seymour Grove, Manchester, 16, £235,646 (recommended).
- Scotland.**—Contracts placed by Scottish Special Housing Association from Feb. 24 to March 24:
- Comrie, Fife. (64 traditional): John Miller (Contractors), Ltd., Carlingnose, North Queensferry—road and footpath surfacing.
- Park Farm, Port Glasgow (108 traditional): G. and W. Brunton, Ltd., 49 Melville Street, Edinburgh—fencing.
- Stanley, Perth. (32 traditional): George A. Cowie, 41 Duchess Street, Stanley—lagging internal water piping.
- Foxbar III, Paisley (192 Atholl): Ross Contractors, Raw Smithy, East Calder—fencing.
- Grahamsdyke, Bo'ness (10 garages): J. G. McGeagh and Co., Ltd., 102 Grove Street, Glasgow, C.2—Bitumen roofing to garages.
- Falside, Bathgate: Barnet and Morton, Ltd., Hayfield Works, Kirkcaldy—fencing along burn.
- Abbotsgrange Road, Grangemouth (54 three-storey flats); Robert Chisholm and Co., Ltd., 410 Gorgie Road, Edinburgh—all trades.
- Clober, Milngavie (30 traditional and 10 garages): Duncan Stewart (Bonnybridge), Ltd., 1 Wellpark Terrace, Bonnybridge—brick; Paterson and Grindlay, Ltd., 39 Charles Street, Kilsyth—joiner; J. Bertram and Son, 3 Lilybank Road, Port Glasgow—tiler and roughcast; A. Campbell Whyte, 98 Quarry Street, Hamilton—plaster; R. E. Love, 27a Caledonian Road, Wishaw—plumber; Hartley Electromotives, Ltd., Monkmoor, Shrewsbury—electrical; City Glass Co., Ltd., 130 Denmark Street, Glasgow—glazier; John McAtter, 53a Thornbridge Road, Garrawhill—painter.
- Tottenham, Middx.**—Sixteen dwellings at Braemar/Kent Roads housing redevelopment for B.C.—R. Williamson (Builders), Ltd., 305 Romford Road, London, E.7, £37,625.
- Warmley, Glos.**—Sixty-two traditional houses at Blackhorse Lane, Mangotsfield, for R.D.C.—J. Laing and Son, Ltd., Mill Hill, London, N.W.7.
- West Kesteven, Lincs.**—Eighteen Homeville traditional houses and bungalows at Ropsley for R.D.C.—W. J. Roberts (Bottesford), Ltd., Bottesford, Nottingham.
- Willesden, Middx.**—Glazing works at South Kilburn (blocks P and Q) for B.C.—Aygee, Ltd., 23 Aintree Road, Perivale, Greenford, £3,429 (recommended).
- Worthing, Sussex.**—Town Planning Committee have approved, subject to conditions, outline application for the erection of one block of 18 flats, six storeys in height, with 18 garages, at the junction of Belsize Road and Mill Road (A.259) for Roffey Developments, Ltd., and scheme for the erection of one block of 18 flats, six storeys in height, with nine garages, at land between Crescent Road and Westbrooke for Roffey (Builders), Ltd. Fewster and Gamble, 5 Liverpool Gardens, Worthing, are the surveyors for both schemes; revised proposals for the erection of one block of 18 flats, four storeys in height, with penthouse over, at 56 Grand Avenue for W. T. Western, Godman and Kay, architects, 13 North Parade, Horsham.



## MATERIALS AND SUPPLIES

**Sheffield.**—Supply of following for City Council: Miscellaneous small iron castings during period April 1, 1961, to March 31, 1964—J. C. Crossland and Co., Foundry Street, Parkgate, Rawmarsh, approximately £4,764 annual cost; fire hydrants during year ending March 31, 1962—Guest and Chrimes, Ltd., 9 Marble Arch, London, W.1, £2,327 (recommended).

## PLANT AND MECHANICAL TRANSPORT

**Bolton, Lancs.**—Supply of one Karrier Bantam 4½-ton diesel engine tractor for B.C.—Rootes, Ltd., Manchester (recommended). Estimated cost £825.

**Coleraine, Londonderry.**—Supply and delivery of a Massey-Ferguson tractor-mounted digger and power shovel for B.C.—W. G. Mayrs, Brook Garage, Coleraine, £1,928.

**Leeds.**—Supply of the following for City Council: Four large capacity refuse collection vehicles, nine side-loading refuse collection vehicles and two vacuum gully emptiers—Cox and Co. (Leeds), Ltd., Regent Buildings, Regent Street, Leeds, 2, £2,770, £1,179 and £2,188 each, respectively; one mechanical loading shovel—Chesides Engineering Co., Ltd., Station Works, Hertford, £1,961; one street sweeping collection vehicle, one street sweeping (suction) collection vehicle, one 7-ton tipping lorry, two 3-ton chassis and cab, and one 3-ton chassis and cab (long wheel base)—Rowland Winn, Ltd., County Garage, Woodhouse Lane, Leeds, 2, £2,325, £4,893, £1,272, £807 each and £773, respectively; one Fordson tractor—Tate of Leeds, Ltd., New York Road, Leeds, 2, £771 (recommended).

**Manchester.**—Supply of the following for City Council: Six Commer 30cwt. forward control chassis/scuttle parcel vans, powered by diesel engines, and two Commer 15cwt. forward control diesel-engined vans in primer, together with accessories and electrical equipment and certain extras—Rootes, Ltd., Manchester; six van bodies—Cooker of Southport, Ltd., Kew Works, Meols Cop Road, Southport; two bulk loading refuse collection vehicles—Shelvoke and Drewry, Ltd., Letchworth, Herts.; one articulated vehicle required for the collection of waste paper and delivery of dust bins—Rootes, Ltd. (recommended).

**Sheffield.**—Supply of following for City Council: Two Atlas Copco portable air compressors—Kingsbury Plant Co., Ltd., Barnsley Road, Doncaster, £771 each, less an allowance of £60 in respect of old air compressor; 13 18-20 cu. yd. Shefflex patent dustless, self-loading and compacting refuse collection vehicles, equipped with all necessary ancillaries—Shefflex, Ltd., Sheffield, £3,505 each; 17,000 galvanised Omega pattern dustless refuse collection ashbins, 2½ cu. ft. capacity (with hinge fitting to work with Shefflex shutter and with embossed lid attached), during the year ending March 31, 1962—Brettell and Shaw, Ltd., Brierley Hill, 48s. 2d. per bin, plus 7s. 1d. purchase tax; three Morris 2-ton diesel chassis/cabs, with van body, £1,184 ex-works; one Morris 3-ton diesel chassis/cab, with van body, £1,265 ex-works; three Morris 5-ton diesel chassis, with hydraulic tipping body, £1,267 ex-works; two Morris 5-ton diesel chassis/cabs, with Autolift tipping gear and Autolift steeltipping body, £1,468 ex-works; one Morris half-ton van, £561 ex-works; two Morris 4-ton vans, £409

ex-works; one Super Industrial Fordson diesel tractor with twin rear wheels, cab and hydraulic straight muleadozer, £1,141, respectively—Kennings, Ltd., Sheffield; one Austin T200 chassis and cab—Sheffield Motor Co., Ltd., 220 West Street, Sheffield, 1, £741; one model L25 Simon hydraulic platform for fitting to the Austin chassis—T. Adshead and Son, Ltd., £954 (recommended).

**Tottenham, Middx.**—Supply of two 18 cu. yd. dual tip machines (in primer) for B.C.—Rootes, Ltd., Devonshire House, Piccadilly, London, W.1, £4,340 (recommended).

## PLAYING FIELDS, PARKS, ETC.

**Sheffield.**—Following for City Council: Stage II development at the Parson Cross Park, comprising site clearance, seeding and drainage works, and the construction of two bowling greens, six tennis courts, roads, footpaths and a service yard—En-Tout-Cas Co., Ltd., Syston, Leicester, £20,882 (recommended).

Additional stage II development work, involving planting work, the paving of and the construction of walls to a proposed rose garden, and the provision of a children's playground, entrances, a water supply and a drinking fountain—Direct Labour (recommended). Estimated cost £8,928.

**Southampton.**—Construction and resurfacing of Woolston tennis courts for B.C.—Southern Turf and Landscape Co., 168 Shirley Road, Southampton, £2,798 (recommended).

## RAILWAY ENGINEERING

**British Railways.**—Following contracts placed:

**London Midland Region:**

Supply, fabrication and delivery of steelwork, etc., for bridge 10 on the Aston/Sutton Coldfield line; bridges 6, 34 and 38 on the Sutton Coldfield/Lichfield line; bridge 49 on the Stour Valley line; bridge 89 on the Chester/Holyhead line, and bridges 156 and 164 on the London/Bedford line—The Butterley Co., Ltd., Butterley, near Derby.

Construction of new signal box at Coventry Station—W. H. Jones and Sons, Ltd., Coventry.

Supply, fabrication and delivery of steelwork for bridge 17 on the Birkenhead/New Brighton line—Jesse Tildesley, Ltd., Willenhall, Staffs.

Construction of Staff Association Club building at Rosegrove—Mullen and Durkin, Ltd., Burnley, Lancs.

Platform resurfacing at Mossley Hill, Allerton and Ditton Junction stations—Davis, Watson and Elliotts, Ltd., Raynesway, Derby.

Construction of Staff Association Club building at Patricroft—R. Partington and Sons, Ltd., Middleton, Lancs.

Construction of Staff Association Club building at Wigston—Edwin Fox and Co., Ltd., Leicester.

**Southern Region:**

Charing Cross: strengthening of arches 169, 170 and 171—Caffin and Co., Ltd., London, W.C.2.

Coulsdon North: new store building and carriage cleaning staging—J. B. Edwards and Co. (Whyteleafe), Ltd., Kenley, Surrey.

Penge East: remedial works to slip—Aubrey Watson, Ltd., New Malden, Surrey.

Norwood Junction: new staff accommodation and telephone exchange—Trautt and Steel, Ltd., Thornton Heath, Surrey.

New Malden: reconstruction of platform

buildings and roofing—Winter and King, Ltd., London, S.W.20.

Eastleigh Carriage Works: re-roofing of block H—Maurice Hill, Ltd., Horndean, Hants.

Extension of electrification, Maidstone East: station alterations—R. Corben and Son, Ltd., Maidstone, Kent.

Extension of electrification, Folkestone Harbour: extension of platform and roofing—R. Corben and Son, Ltd., Maidstone, Kent.

## RIVER AND FLOOD PREVENTION WORKS

**Leeds.**—Flood relief works at Longroyds area, Hunslet, for City Council—W. G. Birch (Harrogate), Ltd., Montpellier House, Harrogate, £17,570 (recommended).

## ROADS, BRIDGES AND SITE WORKS

**Ayr.**—Site preparation works, phase I, including roads, sewers and services for a new Technical College for Co. E.C. F. A. McDonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C.3—Jas. Anderson and Sons, Irvine. Total estimated cost for all phases £682,000.

**Basildon, Essex.**—Road improvement works at the junction of Bull Road with Timberlog Lane, Vange, for Development Corporation. H. W. Dupree, chief engineer—Organ and Co. (Barking), Ltd., River Road, Barking, Essex, £47,737. Work has commenced.

**Beverley, Yorks.**—Making-up of Norwood Far Grove (part) and Grove Avenue for B.C.—Direct Labour (recommended, subject to Ministry approval).

**Bexley, Kent.**—Supply of Hartco surfacing material for the layout of a hard surface football pitch and running track at Westwood County Secondary School for Boys for B.C.—Maxwell M. Hart (London), Ltd., 248 Beulah Hill, London, S.E.19, 44s. 6d. per ton.

**Bolton, Lancs.**—Surfacing of main road carriageways in the 1961-62 programme for B.C.—Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool, 2 (recommended).

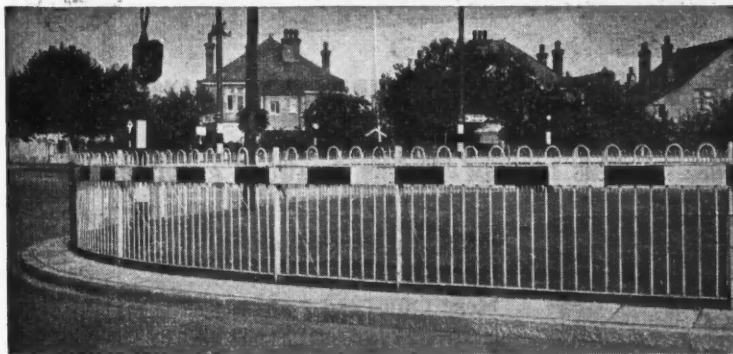
**Brentwood, Essex.**—Making-up of Crow Green Lane, for U.D.C. D. A. Dallas engineer and surveyor—W. E. C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex, £9,956 (accepted); Scott Hale (Contractors), Ltd., £10,642; Waywarden, Ltd., £12,992. Work to commence July.

**Bromley, Kent.**—Resurfacing of High Street and Market Square and the reconstruction of the central islands at High Street for B.C.—Chittenden and Simmons, Ltd., Ditton Place, Larkfield, Maidstone, £7,070 and F. J. Moreton and Sons, Ltd., White House, Perry Street, Chislehurst, £775, respectively (recommended).

**Chertsey, Surrey.**—Widening of Windsor Street and Staines Lane, A320, for U.D.C. N. C. Goldsmith, engineer and surveyor—W. and J. Glossop, Ltd., 123 East Hill, Wandsworth, S.W.18, £71,513. Work commenced.

**Durham.**—Construction of new Baths Bridge over the River Wear for City Council. L. G. Mouchel and Partners, consulting engineers, 24 Claremont Place, Newcastle upon Tyne—Purdie Lumsden and Co., Ltd., Oxford Street, Newcastle upon Tyne, £31,663.

**Ealing, Middx.**—(a) Repair of asphalt carriageways and reinstatement of openings, (b) surface dressing of roads and foot-



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- paths, and (c) tarred macadam during 1961-62 for B.C.—(a) Highways Construction Co., Ltd., Asphalte House, Palace Street, London, S.W.1; (b) Situsec, Ltd., River Road, Barking, Essex, and Taroads, Ltd., 21 Old Bailey, London, E.C.4; (c) Thomas Roberts (Westminster), Ltd., Morris House, Jermyn Street, London, S.W.1 (recommended).
- Ellesmere Port, Ches.**—Construction of roads and sewers at North Whitby estate, part IV, contract 212E, for B.C. Cecil W. Davies, engineer and surveyor—J. Pickavance, Sherdley Road, St. Helens, Lancs., £11,090 (accepted); W. E. Parsons, £13,239; J. W. Flather, Ltd., £12,242; Charles L. Warren, Ltd., £13,965; D.C.M. Contractors (Liverpool), Ltd., £13,872. Work about to commence.
- Epsom and Ewell, Surrey.**—Construction of four bus bays in Cheam Road for B.C.—Pawlyn (Contractors), Ltd., Oakover, Byfleet Road, Cobham, £3,039 (recommended).
- Gateshead, Dur.**—Construction of a loading bank at Team Valley trading estate, Low Fell, for British Road Services, Ltd.—John Laing and Son, Ltd., Dalston Road, Carlisle.
- Gillingham, Kent.**—Making-up of Grain Road, for B.C.—Loaland, Ltd., Aylesford, Maidstone, £9,645.
- Guildford, Surrey.**—Following for B.C.: Construction of the link road and extension of estate road 1, Woodbridge Meadows Industrial estate—Dragon Plant Hire, Ltd., Walnut Tree Close, Guildford, £10,997 (recommended in lieu of previous tender, subject to Ministry approval).  
Widening of Stoughton Road and construction of a footpath between Grange Road and the railway bridge and widening of footpath at Worplesdon Road, opposite Byfield Road, to Tilehurst estate—Pawlyn (Contractors), Ltd., Oakover, Byfleet Road, Cobham, £3,966 and £3,949, respectively (recommended, subject to Ministry approval).
- Gravesend, Kent.**—Renovation of paths with tarmacadam at 1 Lingfield Road for H. Preston—Hodsons, Ltd., 17 Wrotham Road, Gravesend.
- Hammersmith.**—Maintenance of footways during 1962 for B.C.—London Paving Co., Ltd., 21 Aylmer Parade, London, N.2, £3,388 (recommended); J. Murphy and Sons, Ltd., £3,491; Fitzpatrick and Son (Contractors), Ltd., £3,582; W. F. Rees, Ltd., £3,985; Alexander Thomson and Co., Ltd., £4,126.
- Haslemere, Surrey.**—Supply and application of tar by pressure tank sprayer to various roads for U.D.C. L. D. Nicholes, engineer—Home Counties Contracting Co., Ltd., 24-28 Hertford Road, Edmonton, London, N.9 Work commencing June.
- Haslemere, Surrey.**—Supply of 600 tons of 1/2 in. gauge granite chippings for U.D.C. L. D. Nicholes, engineer—F. E. Charman, Ltd., Jeffery Buildings, Worcester Gardens, Sutton, Surrey, £2 1s. 4d. per ton (accepted); Amalgamated Roadstone Corporation, £4 2s. 10d.; Enderby and Stoney Stanton Granite Co., Ltd., £2 8s. 6d.; John Wainwright and Co., Ltd., £2 2s.; Brookes, Ltd., £2 5s. 6d.; Bardon Hill Quarries, £2 3s. 5d.; Croft Granite Co., Ltd., £2 3s. 3d.; W. H. Stoneman and Co., Ltd., £2 10s. 3d.; Portishead Slag Co., Ltd., £1 12s. 7d.; S. and L. Bull Bros., Ltd., £2 9s. Work commencing June.
- Hemel Hempstead, Herts.**—Road 11 and Plough roundabout for Development Corporation, comprising the construction of the first stage, comprising one 24ft. wide carriageway of a dual carriageway classified road 1,330yd. in length and of 72ft. standard width; the reconstruction of the existing Plough roundabout to provide a 250ft. by 220ft. island and a 40-45ft. carriageway; and the construction of a new roundabout having a 120ft. diameter island and a 30ft. carriageway—Shephard, Hill and Co., Ltd., 25/27 Central Chambers, Ealing Broadway, London, W.5. Work commenced.
- Keynsham, Som.**—Construction of hard standing for 52 cars, including certain concrete retaining walls, and ramp, drainage and lighting at Charlton Road Car Park for U.D.C. F. J. Bryan, engineer—Robert Hobbs and Co., Plantation Works, Portbury, Bristol, £3,740. Work about to commence.
- Kilmarnock, Ayr.**—Site preparation works, phase 1, including roads, sewers and services for a new technical college for Co. E.C. F. A. McDonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C.3—A. A. Stuart and Sons (Glasgow), Ltd., 2275 London Road, Glasgow, E.2. Total estimated cost of all phases £831,000.
- Lanarkshire.**—Road and bridge improvements on trunk road A74, between Lesmahag and Canderwater, for Scottish Home Department. Babtie Shaw and Morton, engineers, 17 Blythwood Square, Glasgow, C.2—James Anderson and King, Ltd., 21 Old Castle Road, Glasgow, S.4 Estimated cost £798,000.
- Leeds.**—Following for City Council: Improvement works at Spen Lane (part)—Hadsphalpic Construction Co., Ltd., Dean Avenue, Leeds, 8, £52,296; housing estate works at Poplar estate—Jas. W. Tait, Ltd., £42,481; highway work on footpaths adjacent to abandoned tramway tracks during the year ending March 31, 1962—W. Oilrid and Sons, Ltd., 12 Sissons Terrace, Leeds, 10, J. Fenton and Co., West Bar Chambers, Boar Lane, Leeds 1, and Hadsphalpic Construction Co., Ltd.; carriageway and footpath works and garage sites on various municipal housing estates during the year ending March 31, 1962—Leake and Carney, 11 Holmfild Lane, Wakefield, and James W. Tait, Ltd. (recommended).
- Liverpool.**—Road, sewer and site works on first portion of the Halewood estate, Higher Road, Halewood, for City Council—D.C.M. Contractors (Liverpool), Ltd., Blue Bell Lane, Huyton-with-Roby, £141,400 (recommended, subject to Ministry approval).
- London.**—Preliminary site clearance of six areas in the South Barbican for City of London Corporation—Sir Robert McAlpine and Sons, Ltd., 80 Park Lane, London, W.1, £75,431 (recommended); John Mowlem and Co., Ltd., £104,154; Demolition and Construction Co., Ltd., £107,123; Willment Bros., Ltd., £108,363; Goodman Price, Ltd., £122,876; Richard Costain, Ltd., £138,495; J. Jarvis and Sons, Ltd., £154,623; R. Ashton and Sons (Stoke Newington), Ltd., £168,521.
- Lurgan, Armagh.**—Reconstruction of Wood Lane and other ancillary works for B.C.—T. G. Gilmore, Toberhewney Lane, Lurgan, £7,584. Work is expected to start in May.
- Manchester.**—Following for City Council: Surfacing and fencing of additional playground area at Cornbrook Primary School—Edmondson and Wyatt, Ltd., Worthington Street, Manchester, 1; roads and sewers at Royle Green Road development, stage II—Thomas Cornhill and Co., Broadstone Hall Road South, Stockport; bulk excavation and soil stripping work in connection with road and sewer works at Hattersley overspill site, stage I—S. L. Robinson, Ltd., Stanley Road, Cheadle Hulme, Cheadle; improvement at junction of Lightbourne Road/Kenyon Lane, Moston—Direct Labour (recommended).  
Road and sewer works required at the Midland Road area, Hazel Grove and Bramhall overspill site—Percy Bilton, Ltd., Stone, Staffs. (recommended, extension of contract).

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**Middlesex.**—Surfacing works along the Great Chertsey Road from the Hospital Bridge Roundabout to the Duke's River and the North Circular Road at the Colney Hatch Lane Roundabout for C.C.—Constable Hart and Co., Ltd., Lion House, Red Lion Street, Richmond, Surrey (recommended, extension of contract). Estimated cost £11,553 and £1,340, respectively.

**Newbury, Berks.**—Resurfacing of Market Place for B.C.—Amey's Asphalt Co., Ltd., Sutton Courtenay, Abingdon, £799 (recommended).

**Pershore, Worcs.**—Construction of roadworks and sewers at Nogains for R.D.C., comprising approximately 2,300 super. yd. of roadworks, 140yd. of stormwater sewer, and 380yd. of foul sewers—M. H. Taylor (Civil Engineers), Ltd., 54 Broad Street, Worcester, £5,424. Work about to commence.

**Pontypridd, Glam.**—Private street improvement works in urban area for U.D.C. C. B. Jones, engineer—Walby and Sage, The Yard, Lanelay Road, Talbot Green Glam.

**St. Marylebone.**—Resurfacing and reconstruction of various roads, as follows, for B.C.: Devonshire Street, Langham Place and Penfold Street—Val de Travers Asphalt, Ltd., 21 Old Bailey, London, E.C.4, £8,146, £3,344 and £6,322; Harley Street—Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad Lake House, Vauxhall Bridge Road, London, S.W.1, £10,048; Weymouth Street, Rathbone Street, Marlborough Hill—Mowlem Paving Co., Ltd., 19 Grosvenor Place, S.W.1, £3,065, £1,794, £2,351; Great Cumberland Place, Crawford Street, Wyndham Place, Upper Berkeley Street—Percy Bilton, Ltd., 54 Uxbridge Road, W.5, £9,812, £12,688, £16,566; New Cavendish Street, Berners Street—W. and J. Glossop, Ltd., 123 East Hill, S.W.18, £8,986 and £5,969 (recommended).

**Sandy, Beds.**—Extension to the cemetery at Sandy for U.D.C. R. W. Settle, engineer and surveyor—H. F. Bull and Sons, Ltd., High Street, Sandy, £4,646. Work commencing May-June.

**Sheffield.**—Following for City Council: Road and sewer works within stage II of the Woodside redevelopment area and construction of a service road in Abbey Lane between Dalewood Road and Hutcliffe Wood Road—Direct Labour (recommended, subject to Ministry approval). Estimated cost £54,183 and £4,700, respectively.

Heating and planing of road surfaces, approximately 100,000 sq. yd., during the year ending March 31, 1962—East Anglian Roadstone and Transport Co., Ltd., Norwich, 6½d. per sq. yd. for one cut bed and 4d. per sq. yd. for second and subsequent cuts (recommended).

**Slough, Bucks.**—Construction of Slough By-pass for C.C.—Higgs and Hill, Ltd., Crown

Works, South Lambeth Road, London, S.W.8, and Richard Costain (Civil Engineering), Ltd., 111 Westminster Bridge Road, London, S.E.1, £4,098,874.

**Southampton.**—Making-up of Caerleon Avenue (part) and Caxton Avenue for B.C.—Webbs Contractors, Laurels Farm, Hill Street, near Totton, £2,977 (recommended).

**South Shields, Dur.**—Kerbing and flagging in connection with the reconstruction of King George Road for B.C.—R. B. Pooley, Back Grey Street, North Shields, £6,624.

**Southwark.**—Resurfacing of Walworth Road and Camberwell Road for B.C.—W. F. Rees, Ltd., 54 Victoria Street, London, S.W.1 (recommended).

**Staffordshire.**—Lowering and realignment of the carriageway on the London-Holyhead trunk road, A5, approximately 2½ miles west of Galley Cross-roads, over an approximate length of 300yd. under Stretton Aqueduct which carries the Shropshire Union Canal for C.C. F. Jepson, county surveyor—Asphalt and Public Works, Ltd., Gregory's Bank, Worcester. Work about to commence.

**Wigston, Leics.**—Making-up of part of Clarks Road approximately 200 lin. yd. for U.D.C. F. Isherwood, engineer and surveyor—C. and W. Butteriss, Dover Street, Kibworth, Leicester, £3,499 (recommended).

**Worthing, Sussex.**—Resealing of joints in concrete roads for B.C.—Chittenden and Simmons, Ltd., Ditton Place, Larkfield, Maidstone, £991 (recommended).

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Brixworth.**—Sewerage and sewage disposal in parish of Brixworth for R.D.C., involving the laying of approximately 4,700yd. of 15in., 12in., 9in. and 6in. diameter concrete and salt glazed ware sewers, together with manholes and house connections, and the construction of a sewage disposal works comprising screening, storm overflow and recorder chambers, two settling tanks, two 6ft. diameter percolating filters, two humus tanks, stormwater tank, pumping station, sludge drying beds, and attendant pipework, paths and roads, etc. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester—Tandy and Richmond, Ltd., Pitsford Brickworks, near Pitsford, Northampton, £67,443 (accepted); Brooks and Johnson, Ltd., £68,789; J. E. Lucas, Ltd., £81,634; F. W. Shanks, Ltd., £84,148.

**Bromley, Kent.**—Construction of relief surface water sewers at Clarence Road and Southlands Road for B.C.—R. Mitchell, Green Street Green, Farnborough, £4,718 (recommended).

**Daventry, Northants.**—Laying of about 200yd. of 6in. diameter sewer and manholes, together with the reinstatement of road surfaces in Watford Road, Crick, for R.D.C. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester—Tandy and Richmond, Ltd., Pitsford, Northants, £1,246 (accepted); Modern Plant Hire, Ltd., £1,275; J. E. Lucas, Ltd., £1,395; Kimbell Construction, Ltd., £1,503; Marston Construction Co., £1,539.

**Edeyrnion, Merioneths.**—Contract 5, Llan-drillo sewerage scheme for R.D.C., comprising the construction of approximately 1,600yd. of 9in. and 6in. sewers and a sewage disposal works—Sandford Fawcett and Partners, consulting engineers, 53 Victoria Street, London, S.W.1—Whitley Bros., Ltd., Holt Road, Wrexham (provisionally accepted).

**Gateshead, Dur.**—Reconstruction of the Neilson Road outfall sewer for B.C. G. F. Winters, borough engineer—Tarmac Civil Engineering, Ltd., Bowesfield Lane, Stockton-on-Tees, £9,722.

**Guildford, Surrey.**—Construction of a surface water sewer at Farnham Road for B.C.—Dragon Plant Hire, Ltd., Walnut Tree Close, Guildford, £2,815 (recommended).

**Huntingdon.**—Laying of approximately 200yd. of 12in. diameter concrete sewer, the construction of a storm overflow chamber and manholes at Sawtry for R.D.C. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester—Henry J. Firman, Ltd., Newark Road, Peterborough, £1,311 (accepted); Stirton Partners, Ltd., £2,294; Joseph Webster, Ltd., £1,481; D. M. Marriott and Sons, £1,578.

**Manchester.**—Following for City Council: Culverting of stream through sites of North Manchester Grammar School for Girls and Shackliffe Green Secondary School—J. F. Donelon and Co., Ltd., 30 Slade Lane, Manchester, 3 (recommended).

(a) Supporting steelwork structures required in connection with the operation of the eight primary sedimentation tank scrapers; and (b) additional switchgear required in the main pumping station for the supply of electricity to the pre-aeration and primary sedimentation plant at Davyhulme sewage disposal works extension—(a) W. E. Farrer, Ltd., Welby Road, Birmingham, 8; and (b) Brush Electrical Engineering Co., Ltd., Falcon Works, Loughborough, Leics. (recommended).

**Newburn, Northumb.**—Chapel House estate: Off-site sewers at Walbottle for U.D.C.—Tarmac Civil Engineering, Ltd., Bowesfield Lane, Stockton-on-Tees, £31,268 (accepted); Gustorus Bailey, Ltd., £44,979; Wm. T. Wallace and Son, Ltd., £45,146; Alex. Anderson (Contractors), Ltd., £48,900;



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Harbour and General Work, Ltd., £34,171; J. H. Greenwell and Co., Ltd., £34,337; Ralph Bowey and Son, Ltd., £48,299; Alston Limestone and Co., Ltd., £40,345; F. M. Willers and Co., Ltd., £53,280. Work to commence May 1.

**Newbury, Berks.**—Supply of a rotary sludge scraper for the new humus tank at the sewage disposal works for B.C.—Hartleys (Stoke-on-Trent), Ltd., Kearsley Chambers, Stoke-on-Trent, Staffs., £2,461 (recommended).

**Newport Pagnell, Bucks.**—Castlethorpe sewerage scheme, contract 1, for R.D.C.—J. E. Lucas, Ltd., Moulton, Northampton, £32,410.

**Reading, Berks.**—Construction of a foul sewer at Elgar Road and at Kiln Road, for B.C.—Tilbury Construction Co., Ltd., Twyford, Reading, £2,712 and £11,507, respectively (recommended).

**Sheffield.**—Sewerage works in Oakley Road, Hall Road, Willow Drive and Handsworth Road for City Council—Direct Labour (recommended). Estimated cost £10,400.

**Wigston, Leics.**—Laying of approximately 305 lin. yd. of 42in. concrete pipes in a ditch at the refuse tip, Magna Road, South Wigston, for U.D.C.—F. Isherwood, engineer and surveyor—Norman Griffiths, Great Glen, Leicester, £3,485 (recommended). Work commencing May.

#### STREET LIGHTING

**Leeds.**—Renewal of the electric lighting system for public roadways throughout the block shop section in Kirkgate Market for City Council—Direct Labour (recommended). Estimated cost £2,000.

**Manchester.**—Supply of 140-watt sodium street lighting columns for installation in Upper Chorlton Road for City Council—Stewarts and Lloyds, Ltd., 41 Oswald Street, Glasgow, C.1 (recommended).

#### GOVERNMENT CONTRACTS

**Metropolitan Police.**—Recent contracts placed include:

Adaptations and repair of dilapidations. Lippitts Hill Camp, High Beech, Loughton—Charles S. Foster and Sons, Ltd., £11,178.

**Ministry of Finance, Northern Ireland.**—Contracts exceeding £250 in value placed during the period March 13 to March 24, inclusive:

Internal painting: Ulster Savings Committee, 58-60 Royal Avenue, Belfast, 1—G. F. Johnston, 70 Clifton Street, Belfast, 13.

Painting and Cleaning: Head Post Office, Royal Avenue, Belfast, 1—G. F. Johnston, 70 Clifton Street, Belfast, 13.

Supply, etc., Wrought-iron Gates and Railings: New Office Building, King Street, Magherafelt—Everton Sheet Metal Works, Ltd., Whitehouse, Newtownabbey.

Electrical installation: Pomeroy House, Pomeroy Forestry Centre—T. McCarroll, Main Street, Ahoghill, Co. Antrim.

Supply, etc., Electrical Generating Set: R.U.C., I.G.'s Headquarters, Brooklyn, Knock—Petters, Ltd., Hamble, Southampton Hants.

P.A.B.X. Installation and Satellite: New Government Offices, Stormont—Standard Telephones and Cables, Ltd., Fooks Cray, Sidcup, Kent.

Alterations and Adaptations: Pomeroy House, Pomeroy Forestry Centre—W. J. Crooks, 19 Union Street, Cookstown.

Supply, etc., Wood Block Flooring: Auto Telephone Exchange, Ballymena—Vigers Bros. Ltd., Broadway Chambers, Ludgate Broadway, London, E.C.4.

Low Pressure Hot Water Heating, etc.: Post Office, Cookstown—Musgrave and Co., Ltd., St. Ann's Works, Belfast, 5.

**Ministry of Works.**—Contracts placed for week ended March 25:

Lancashire: Telephone Manager's Office, Preston—construction—Leonard Fairclough, Ltd., Adlington; Automatic Telephone Exchange, Warbreck Hill Road, North Shore, Blackpool—extension—Wm. Eaves and Co., Ltd., Daggers Hall Works, Vicarage Lane, Blackpool; Premium Bonds Office, Heyhouses Lane, Lytham St. Anne—internal decorations—F. Parkinson, Ltd., Mowbray Drive, Blackpool; Post Office Sorting Office, Granville Road, Fallowfield, Manchester—extension—G. Fisher (Fallowfield), Ltd., Albany Road, Chorlton-cum-Hardy, Manchester, 21.

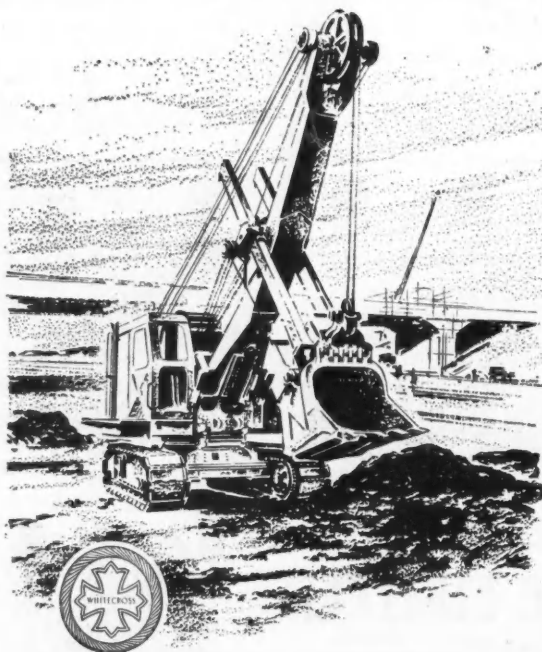
London: St. James's, Regents and Hyde Parks—repairs to roads—H. V. Smith and Co., Ltd., Holton Street, N.W.1; Her Majesty's Customs and Excise Office, Millwall Docks, E.14—erection—John Mowlem and Co., Ltd., 91 Ebury Bridge Road, S.W.1; Sub-district Branch Post Office, Abbey Wood Road, S.E.2—erection—A. Roberts and Co., Ltd., 79 Eccleston Square, Victoria, S.W.1; Admiralty, Whitehall, S.W.1—heating and hot water services—Comyn Ching and Co. (London), Ltd., 51-52 Shelton Street, W.C.2.

Surrey: New Branch Post Office, 7-8 Langdale Parade, Mitcham—construction—Whyatt Builders, Ltd., 225 Streatham High Road, S.W.16.

Yorks.: Trunk Telephone Exchange, Kingston-upon-Hull—concrete driven piling—Holmpress, Piles, Ltd., Leads Road, Hull; Crown Offices, 16 Bond Street, Leeds—alterations—J. Pullan and Sons, Ltd., Manor Works, Beeston, Leeds; Telephone Exchange, Falcon Street, Barnsley—extension—James Miller and Partners, Ltd., Newmillerdam, Wakefield.

**Post Office.**—Contracts for duct laying, etc., works to the value of £4,000 and over placed during the two weeks ended April 1:

The Baillie Contracting Co., Ltd., 2061 Coventry Road, Sheldon, Birmingham, 26; Bowzell, Ltd., Wellington House, Dover Road, Walmer, Deal, Kent; The C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; James Cooper (Construction) Co., Ltd., 28 Kensington Church Street, London, W.8; Crawford and Cryan, Ltd., 124 Stafford Road, Wellington, Surrey; W. A. Gale, Ltd., 48 Ruthven Road, Litherland, Liverpool, 21; Geo. H. Graham (Contractors), Ltd., District Bank Chambers, Market Street, Huddersfield, Yorks.; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; Sangwin, Ltd., Dansom Lane, Hull, Yorks.; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Bristol, 6; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8; George Turner and Son, Ltd., Hauxton Mill, Cambridge.



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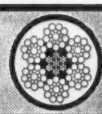
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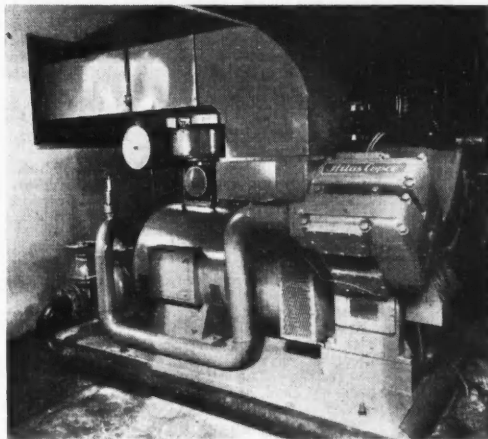
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To achieve these aims the DT4 was made with an unusually short piston stroke—equivalent to 21 per cent. of the diameter of the low pressure cylinder. This meant that the piston speed could be kept down to 10.6ft. per sec. at 970 r.p.m. At this speed the DT4 delivers 565 c.f.m. at a normal working pressure of 100 p.s.i.

The machine occupies 30 to 50 per cent. less floor space and headroom than is generally required for compressors of the same capacity. Its weight is low—2,200lb., and it can be driven by a 120-h.p. motor of most of the commonly known makes.

Outlay for foundations and installation is low—a light bed-plate frame set in a concrete base to which motor and compressor unit are bolted. The unit can also be four-point mounted on a frame with rubber pads to provide a flexible installation.

The manufacturers say that contractors will find the DT4 a good solution for temporary compressed air supplies, for the motor-compressor unit can be supplied on a semi-portable skidframe. All that is needed as a foundation is a few planks levelled off in sand. The machine is fully air-cooled.

**BRISTOL SIDDELEY TRANSPORTABLE 3-MW TURBO-GENERATOR**

WITH the introduction of their new mobile 3-MW turbo-generator, Bristol Siddeley Engines Ltd., of Bristol and Coventry, claim that contractors have an ample source of power which can be installed and operated in remote and relatively inaccessible areas with the minimum of trouble and time.

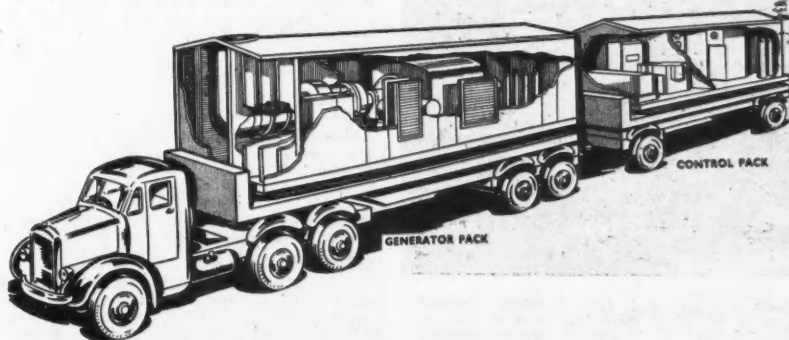
At the same time it is stated that electricity supply undertakings can introduce a 3 megawatt set into any part of their system within a matter of hours for peak-loading, as a stand-by during maintenance periods or as an on-the-spot supply in disaster areas cut off from outside supplies.

Powered by the Proteus gas turbine, the mobile generator pack can be mounted on a standard road transporter or railway

flat car and be put into service on any part of the road or rail system without off-loading or jacking. Its small size and light weight make it easily transportable by sea or air and slinging points are built in to obviate the need for any special gear.

A rigid frame construction does away with the need for foundation work if the unit is to be used on a fixed or semi-permanent site, while air intake and exhaust systems are silenced to a noise level acceptable for residential areas.

Typically, the mobile set would consist of generator pack and control pack, the latter necessary only when control equipment is not available on the site. In areas where suitable sources are available, the Bristol Siddeley portable can be operated on natural gas.



Bristol Siddeley transportable 3-MW turbo-generator

**SEALANT MANUFACTURERS' CONFERENCE**

THE Technical Panel of the newly formed Sealant Manufacturers' Conference of the Federation of British Rubber and Allied Manufacturers met recently to begin its work of drawing up performance standards for rubber-based sealing compounds, together with a code of practice for their application in the building, ship-building and other industries.

The following officers were elected: Chairman: Dr. Wallace Rubin (Kelseal Ltd.); vice-chairman: Mr. L. E. Puddefoot (B. B. Chemical Co., Ltd.). The remaining members of the Panel are: Dr. J. Bowler-Reed (Expandite Ltd.); Mr. L. W. Cutler (British Paints Ltd.); Dr. B. S. Jackson (Evomastics Ltd.); Mr. G. H. Marsh (The Minnesota Mining and Manufacturing Co., Ltd.); Mr. A. G. Storey (T. & W. Farmiloe Ltd.).

**CONCRETE MORTAR PENETROMETER**

A new pocket style concrete mortar penetrometer for field and laboratory evaluation of the "initial set" of concrete has been developed by Soiltest, Inc., 4711 W. North Avenue, Chicago 39, Illinois, U.S.A.

The penetrometer which is only 7 inches long can be used in conjunction with ASTM test C-403. The test procedure involves forcing the 1/20 square inch steel penetrometer shaft into concrete mortar to a depth of one inch scribed on the shaft. The resistance in pounds per square inch is shown on the penetrometer's direct reading scale by the indicator sleeve which automatically holds its position until released. The scale range is from zero to 700 pounds per square inch.

**LIGHTWEIGHT DIESEL DRIVEN PUMPING SET**

The Tooley Electro Mechanical Co., Ltd., New Street, Earl Shilton, Leics., are now producing a new ultra lightweight diesel engine driven pumping set.

The centrifugal pump with a 2in. diameter inlet and 2in. diameter outlet is close coupled to a lightweight 4 stroke cold starting air cooled diesel engine. The capacity ranges from 2,700 g.p.h. at 100ft. head to 3,800 g.p.h. at 20ft. head.

The pumping set weighs 240lb. and is 34½in. long, 24in. wide and 26½in. high when measured over the carrying handles. It is mounted on a specially designed trolley with spring type antivibration mountings and is easily wheeled by one man.

**FOUNDATION ENGINEERING SPECIALISTS**

A new company, Caledonian Drilling and Foundations Ltd., 100 Park Street, Motherwell, has been formed to provide a comprehensive service covering site investigation boring, laboratory testing and reporting, foundation design and driven and bored piling.

A new soils laboratory has been constructed and equipped at Motherwell, and the company has imported from the United States large diameter earth drilling rigs which, together with conventional percussion piling rigs, will cover a loading range from 20 to 1,000 tons.

**BRITISH MICHIGANS IN FINLAND**

Recent export shipments to Finland of British-built Michigan tractor shovels and tractor dozers included model 275A (4½ cu. yd.—262 h.p.) tractor shovels. These are being used in a large limestone quarry at Lappeenranta in Western Finland.



## Trade and Company News

## NEW COMPANIES

*The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—*

G. T. Wall and Sons, Ltd., builders. £3,000. Directors: George T. Wall, 2 Hall Street, Oldswinford, Stourbridge; George A. Wall, 47 Princess Road, Norton, Stourbridge; Florence E. Wall, Dorothy E. Wall and Margaret R. Molineaux.

G. C. Maycock (Kidlington), Ltd., builders. £1,000. Permanent directors: Gordon C. Maycock and Winifred M. Maycock, 190 The Moors, Kidlington, Oxford.

R. Barrett Building Contractors, Ltd., 6 Surrey Street, W.C.2. £1,000. Directors to be appointed by subscribers. Subscribers: Stanley H. Lucas and Francis A. Dean, 6 Surrey Street, W.C.2.

J. C. Gunner, Ltd., 40 Wilton Road, Reading, road surfacers. £100. Directors: Jesse C. Dunne and Mrs. Ruby S. Gunner, 63 Gainsboro Road, Reading.

Hulme and Holden, Ltd., builders. £1,000. Permanent directors: Clifford Hulme, 29 Rutland Road, Hazel Grove, Ches.; Philip Holden, 27 Gladstone Grove, Heaton Moor, Stockport.

Partners Builders (Barnet), Ltd., 10 Holly Park Road, N.11. £1,000. Directors: Douglas C. Jackson, 99 Byng Road, Barnet, Herts.; Charles W. Baldwin, 28 Nupton Drive, Barnet.

Saxby and Smith, Ltd., 91 Talbot Street, Nottingham, builders. £1,000. Directors: Bertie C. Saxby, 39 Masefield Crescent, Balderton, Newark; Harry Smith, 91 Winthorpe Road, Newark.

Holyport Building Co., Ltd. £1,000. Directors to be appointed by subscribers. Subscribers: Alfred M. Fox, 154 Mile End Road, E.1 (clerk); John F. Clew, 208a Regent Street, W.1 (solicitor).

J.B. Construction (Huddersfield), Ltd., 81a King Street, Huddersfield, builders. £100. Harry C. Adamson, 14 Plumpton Gardens, Wrose Road, Bradford, 2, signs as director.

Gilson Jones, Ltd., Houghton, near Stafford, builders. £1,750. Directors: Peter A. V. Purdue-Gilson, The Cottage, Hilcote, Eccleshall, Staffs.; Clifford S. Jones, 13 Edwal Road, Weston Coyney.

V. C. Cooke, and Son, Ltd., Maypole Green, Toft Monks, Norfolk, builders. £5,000. Directors: Victor C. Cooke and Edith M. Cooke, Maypole Green, Toft Monks, Norfolk.

A. L. Gatward, Ltd., Grays Inn Chambers, 20 High Holborn, W.C.1, builders and contractors. £1,000. Directors: Alfred L. Gatward and Mrs. A. M. Gatward, Daymer Cottage Reigate Road, Hookwood, Horley, Surrey.

Hawsley Building Co., Ltd. £750. Director: Joan E. Cawley, Brackenbrae, Top Road, Five Crosses, Frodsham, via Warrington.

Folley's Ready Mixed, Ltd., Newtown Pits, Marlow, Bucks., ready mixed mortar and concrete. £1,000. Directors: Wm. E. Folley, New Farm House, Sheepridge, near Little Marlow, Bucks.; Archie W. Folley, Sedgemoor House, Marlow; Wm. H. E. Folley, Wm. H. G. J. Folley and Geoffrey A. Folley.

A. W. Kingdon and Co., Ltd., 47 Boutport Street, Barnstaple, builders. £100. Directors: Arthur W. Kingdon and Beatrice I. Kingdon, 20 Caen Street, Braintree.

W. T. A. Vincent, Ltd., builders. £1,000. Directors: Wm. T. A. Vincent and Mrs. Mary M. Vincent, 9 Austin Avenue, Northbourne, Bournemouth.

R. E. Lewis (Builders), Ltd., Westminster Bank Chambers, Wellingborough. £500. Directors: Robt. E. Lewis, 116 Colwyn Road, Northampton; Jack R. Hyland, 59 Wheatfield Road, Northampton.

L. Loading Shovel Developments, Ltd., Britannic House, Long Eaton, Nottingham, plant hirers, including building and constructional equipment, etc. £1,000. Director: Rita Coles, 23 Nathaniel Road, Long Eaton, Nottingham.

Manlo (Public Works), Ltd., construct, erect, develop and manage and control roads, railways, etc. £5,000. Directors to be appointed by subscribers. Subscribers: Edith Hales, 127 College Road, Moseley, Birmingham (company secretary); Peter J. Bridges, 60 Grove Road, Millhouses, Sheffield.

Davron Constructions, Ltd., 23 St. Georges Road, St. Margarets, Twickenham, Middx., civil, mechanical and general engineers. £2,000. Directors: Ronald C. Pakes, Saxonbury House, West Street, Ryde, I. of W.; John D. Isaac, 5 Prior Road, Kew, Surrey; Leonard C. Bliss.

Mars (Sectional Building Specialists), Ltd., Leads Road, Stoneferry, Kingston-upon-Hull. £20,000. Permanent directors: Alfred N. Mars, 242 Salthouse Road, Sutton, Kingston-upon-Hull; Stanley L. Wilson, 93 Kilnsea Grove, Sutton, Kingston-upon-Hull; Percy J. Upton.

Kay Bros. (Builders), Ltd. £1,000. Directors: Harold Kay, 48 Poulton Street, Kirkham, near Preston; Frank Kay, Annandale, Station Road, Kirkham; May Kay and Elsie Kay.

Modern Homes (Tonbridge), Ltd., builders. £1,000. Directors not named. Subscribers: C. Barclay, Barclay House, Tonbridge; D. Whitley, Borden, Tonbridge (solicitor). Marshall Construction Co. (Halsall), Ltd., 109 New Street, Halsall, Ormskirk, builders. £100. Directors: Richard Marshall and Mrs. Lilian Marshall, 109 New Street, Halsall.

P. I. Field and Son, Ltd., Chain Cottage, Sevenoaks Road, Ightham, Kent, site clearing contractors, etc. £500. Directors: Peter I. Field and Mrs. Daphne I. Field, Chain Cottage, Sevenoaks Road, Ightham.

J.E.T. (Builders), Ltd., 391 Streetsbrook Road, Solihull. £1,000. Directors: Joseph E. Tolladay and Joan M. Tolladay, 391 Streetsbrook Road, Solihull.

Barrington Construction Co., Ltd., 37 Vicarage Road, Blackheath, near Birmingham, builders. £1,000. Directors: Barrington B. Hackett and Susan B. Hackett, 37 Vicarage Road, Blackheath.

Pawat, Ltd., builders. £100. Directors: Not named. Subscribers: E. O. Davies, 107 Culver Grove, Stanmore, Middx. (clerk); J. Mills, 60 Dewsbury Road, N.W.10 (clerk).

C. Predeth (Builders), Ltd., 24 Eaton Road, Margate. £1,000. Directors: Lewis C. Predeth and Mrs. M. L. Predeth, 5 Belgrave Road, Margate.

F. A. S. Willey, Ltd., Frith House, Church Street, Croydon, builders. £100. Directors: Frederick A. Smith-Willey and Violet L. Smith-Willey, both of 29b South Norwood Hill, S.E.25.

Howarss, Cricklade (Builders), Ltd., Fairholme, Giles Avenue, Cricklade. £1,000. Directors: Howard Johns, Fairholme, Giles Avenue, Cricklade; Thomas D. Sandell, 2 Corner Houses, Driffield, near Cirencester.

Brown and Gunn, Ltd., The Bungalow, Osier Road, Spalding, Lincs., builders. £1,000. Directors: Neil M. Brown and Mrs. Josephine M. Brown, The Bungalow, Osier Road, Spalding; Geo. M. Gunn, 37 Alpine Terrace, Dundee.

Altrincham Building Co., Ltd., 12 Dunham Road, Altrincham, Ches. £5,000. Directors: Robert A. Crosby, Dale Cottage, Kebroyd, Triangle, Halifax; John H. Knott, 24 John Shepley Street, Hyde, Ches.; Wm. O'Reilly, 88 Knott Lane, Hyde, Ches.

Midland Plant Installations, Ltd., Swanswell Chambers, Wheatley Street, Coventry. £1,000. Directors: Peter Graham, 29 Belmont Road, Rugby; John E. Brown, 95 Hinkley Road, Coventry.

Potter and Biscombe, Ltd., 17 Hollin Park Road, Leeds, 8, paving contractors. £1,000. Directors: John Potter, 17 Hollin Park Road, Leeds, 8; Derek Biscombe, 41 Belle Vue Avenue, Scholes, near Leeds.

M. and S. Pegg, Ltd., 172a Holbrook Lane, Coventry, builders. £100. Director: Frank Pegg, 14 Knoll Drive, Coventry.

Wokingford, Ltd., 29 The Broadway, Stanmore, Middx., builders. £500. Directors: Peter F. Douglass, Floreat, Beggars Hill Road, Lands End, Twyford, near Reading; John T. Woolnough, 572 Reading Road, Winnersh, Wokingham.

S. Harris Builders (Cornwall), Ltd., Tregardock, 26 Alexandra Road, St. Austell, Corn. £500. Directors: Sidney Harris and Mrs. A. Harris, Tregardock, 26 Alexandra Road, St. Austell, Corn.

J. J. Harland and Partners, Ltd., Gresham House, 54 High Street, Shoreham-by-Sea, Sussex, builders. £500. Directors: Arthur H. Porter, Shameen, Kings Walk, Shoreham-by-Sea; Thomas H. Porter, Broxholme, Jubilee Road, Portslade; Dorothy M. Porter and Agnes E. E. Porter.

Barbican Building Estate, Ltd., Quayside, West Looe. £500. Directors: Francis W. Wheeldon, The Round House, Looe; Harold Marshall, 10 Beech Terrace, Looe; Edwin Pearce and Kenneth T. Pote.

Corby Contractors, Ltd., 41 Ashworth Road, Rainham, Essex, builders. £100. Directors: Andrew P. Corby and Doris Corby, 41 Ashworth Road, Rainham, Essex.

R. J. Hopkins and Son (Builders), Ltd., 283 Prince of Wales Road, Sheffield, 2. £1,000. Directors: Reginald J. Hopkins and Mrs. Mary E. Hopkins, 268 Granville Road, Sheffield, 2.

Howard Flint and Co. (Builders), Ltd. £100. Directors to be appointed by subscribers. Subscribers: James P. Davison, 65a Fenchurch Street, E.C.3 (company director); Leonard M. Carrington, 66 Elmhurst Crescent, Finchley, N.2.

Uckfield Building Works, Ltd. £100. Directors: Frank J. Muddle, Fairfields, Cambridge Way, Snatts Road, Uckfield; Wm. E. Richards, 8 Manor End, Uckfield; Stanley D. Williams.

E. R. Moizer Structural Designs, Ltd., One Ash, Elswick, near Kirkham, Lancs., structural engineers. £100. Directors to be appointed by subscribers. Subscribers: Emanuel N. Oliva and Edith J. P. Oliva, 38 Bankburn Road, Liverpool, 13.



The frameless trailer produced by John Villiers and Co., Ltd. (*The Contract Journal*, November 17, 1960), was recently demonstrated at the Hyde Park improvement scheme to representatives of interested firms and organisations. It is seen in the photograph coupled to a Thames Trader 108in. W.B. tractor unit, with the Knightsbridge temporary viaduct in the background



**Trade and Company News****PRECISION CONTROL OF DANISH ASPHALT MIXING PLANT**

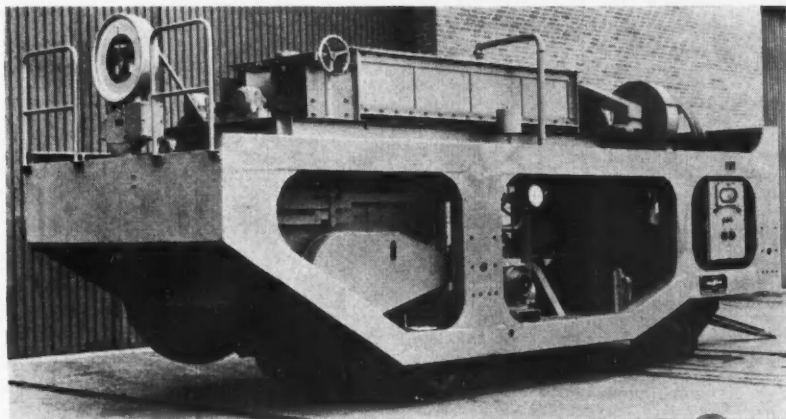
**P**RODUCTION of a new Via Nova continuous asphalt mixing plant has been announced by H. Nielsen and Son Maskinfabrik A/S, 37 Aldersrogade, Copenhagen, N. Denmark.

According to the company, control possibilities of the continuous mixing plants have not always been satisfactory, but in the case of the Via Nova all the finished mix passes from the mixer via a motor-driven, electrically heated rotary weigher which, due to a quality-pendulum-pointer as well as to exact control of the motor, can measure out the total production in quantities of 2,000lbs. with a precision of  $\pm 1$  per cent. In addition, all the binder, measured out in a pump,

passes through a precision dial meter which indicates the quantity of the binder passing to the mixer with a precision of  $\pm 0.7$  per cent.

The manufacturers state: "If the produced finished mix (indicated in tons on an addition-counter) is compared to the binder consumed (indicated in litres on a dial meter), it is possible to control at any time, with a precision unknown so far, the contents of binder of the finished mix".

The plant is manufactured in two sizes—100t/h and 140t/h. Both models are fully portable and can pass the clearance of the international roads and railways. No cranes are needed for mounting, hydraulic lifting columns being available.



Plant in transport position

**LARGE STRAND PRESTRESSING JACK**

**A** NEW Gifford-Burrow high pressure large strand jack is being introduced by Prestressed Sales, Ltd., 64 Battersea High Street, London, S.W.11.

Weighing only 96lb., it uses working pressures of 10,000lb. p.s.i. and provides a maximum jacking force of 77½ tons. The 10in. stroke model is 24in. long over the temporary grip at the back and is 6½in. in diameter. It can be supplied with an

independent electrically operated or petrol driven pump unit, and is remotely controlled by valves on the pump.

The extension scale marked on the jack is in metric and English units. Extension, retraction and locking off are all power operated from the pump, and a torsion sleeve is provided to prevent the ram rotating during stressing. Where extremely accurate load measurement is required, a dynamometer can be fitted between the jack and the temporary grip.

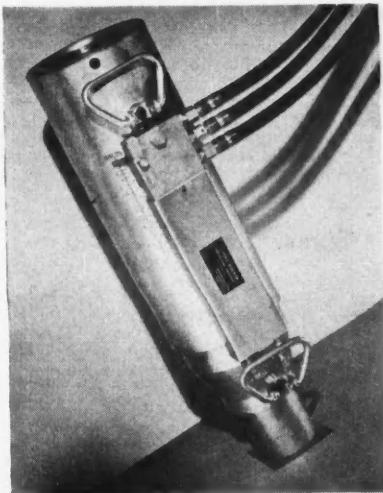
The control valve on the pump unit has been so designed that the stressing of the release rate can be controlled very sensitively. Safety valves are also incorporated in the pump unit.

**"AGLITE" AGGREGATE PLANT EXTENSIONS**

Plowright Brothers, Ltd., London, S.W.7, have received from the Butterley Co., Ripley, Derbyshire, orders for modifications and extensions to the "Aglite" lightweight aggregate plant at their Salterwood Works.

The contracts, valued at over £100,000, include clay preparation and handling equipment, crushing, handling and storage of the sintered product and structural steel buildings as well as all the necessary electrical equipment and modifications to part of the existing electrics.

Henry Pooley (Consulting Engineers), 36 Victoria Street, London, S.W.1, are the consultants for the sinter handling equipment for the Butterley Co.



The Gifford-Burrow jack

**FILIGREE PREFABRICATED REINFORCEMENT**

**R**ECORD BUILDING UNITS, LTD., 39 Victoria Street, London, S.W.1, announce that Filigree prefabricated reinforcement for floors and roofs is now being introduced and manufactured in England.

It will be available in heights of 4.6in., 6.3in. and 8.5in. suitable for use in floors from 6in. thickness upwards. The reinforcement bars will be supplied in diameters of ½in., ¾in., 1in., 1½in. and 2in. so that 15 different types will be available to cover most spans. Any length can be supplied up to 40ft. maximum and cut lengths will be available to suit contract requirements.

Advantages claimed for Filigree reinforcement are low cost, low dead weight plus more rapid assembly of the finished beams. It can also be used in situ with or without infiller pots for the production of low cost floors. Prices range from £86 per ton according to size.

**CONTINENTAL FLOOR SCREEDS**

Two floor screeding materials, widely used on the Continent, are to be made available in England and Wales by Ardex Surfaces, Ltd., 88 Crawford Street, London, W.1.

The first, Ardur 351, is a powder which when mixed with water provides a smooth surface on which to lay modern flooring such as p.v.c. It is a fungicide and bactericide, and resists the action of solvents in many adhesives. Fine, medium and coarse grades are available, selection being dependent on the thickness of the screed required and the final flooring material to be used.

The other is Ardex 757, a rapid hardening powder-and-water mix for levelling and repairing badly worn and pitted sub-floors and for levelling wooden floors prior to laying a final covering.

**BOULTON PATENT PARALLEL COUPLER**

Boulton Scaffolding Ltd., 65 Putney Bridge Road, London, S.W.18, have announced that a new parallel coupler has been introduced to their range of steel scaffold fittings.

In addition to the usual known use, it is stated that the fitting is equally suitable for the quick and economical assembly of two, three or even four standard scaffold tubes in multiple column or horizontal formations.

The fitting has no loose parts and is of single bolt action, the body being so formed to act as cradles for assembly of scaffold tubes without threading, equidistantly registered to permit the fixing of any other type of scaffold coupler.

**WEAR-RESISTANT FLOORING**

Burt, Boulton and Haywood, Ltd., Crabtree Manorway, Belvedere, Kent, have produced a new flooring compound which they proved, under British Standard tests, to be 20 times more wear-resistant than granolithic concrete. Maximent, as it is called, is easily applied, dries overnight and can be driven over the following day. It is said to be unaffected by water and heat and proof against fats and chemicals.

**MARKER FOR ROAD VERGES**

A device for clearly marking road verges has been evolved by Hamilton, Ltd., Cullinstree Road, Belfast. It comprises a rubber or neoprene post, 1ft. 6in. to 2ft. long, reinforced at the base for fixing in concrete and cored with a steel spiral spring. To the top is fixed reflecting foil which is visible even in heavy fog or rain.



# Talking of Safety

by

"DRAGEE"

A FEW days after the incident of the factory inspector, Harry Hayes was talking to one of our site agents—Leslie Simms. It appears that Leslie met Harry at a local reunion, and the tale of woe descended upon him like an avalanche. Possibly the reunion had reached the confidential stage, when bosoms are unburdened, and personal sorrows touch the heights of tragedy.

Harry described the visit and the tour of the site in minute detail.

"Every blasted thing was wrong," he concluded. "You'd think we hadn't anything to do but go around fixing guards, mending ladders and sticking up perishing notices all over the place. To say nothing of all the hours we're supposed to spend writing up registers and heaven knows what. And then, to cap it all, he tells me that he was once a site agent! That needed me, I can tell you. Even when I told him we were behind time it didn't cut any ice."

"What was your safety officer doing all this time?" Leslie asked.

"Safety officer? Don't make me laugh! I am the safety officer on my job."

"Oh," said Leslie.

"That's the way we do it," Harry explained. "Or at any rate it's the way Head Office do it. 'The job must have a safety officer,' the Chief said, 'so that's you, and get cracking.' Just like that."

Harry drained his glass, walked over to the counter, and came back with two glasses of bitter. He sat down and lit a cigarette.

"They gave me the safety officer's do-it-yourself kit. Know what that is? It's a magnifying glass and a pin. You go round hunting for breaches of the regulations, then you give the foreman a few jabs and everything gets put right—for a couple of days. The two days were up when the inspector arrived."

"That was hard luck," said Leslie.

"I'll say it was. Mind you, I wouldn't like to swear that everything's as it should be at the best of times. But can you show me a job that's perfect?"

"No," said Leslie. "But I can show

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

you a job that doesn't get complained about by the factory inspector."

"Oh?" Harry exclaimed. "Whose job is that?"

"Mine," said Leslie.

"Well, that's just fine. Congratulations. And what good does it do you, if it's not a secret?"

"We don't lay ourselves open to prosecution, for one thing. What's more important, we don't have many accidents."

"That's all very well, but you've got a full-time safety officer looking after your job."

"I agree, but the man in charge is still responsible for the safety of his men. Your inspector may not have mentioned this—he probably had too many other things on his mind, by all accounts—but the fact is that if you're too busy to attend to safety matters on your own job, you don't qualify as the responsible person required by the regulations."

"So what do I do?"

"You go along to your boss and tell him all your troubles, and at the same time you can remind him of his legal obligations."

"Then what?"

"Then you say it's about time he appointed a full-time safety officer. Mind you, if this business of yours goes to court, somebody else will probably tell him."

"Good heavens! You don't think there'll be a prosecution?"

Leslie shrugged. "Could be. Depends upon how bad it really was. It might have been one of the inspector's 'off' days."

"It certainly was by the time he left. Never saw a chap looking so mean. Let's have some more beer."

"No thanks—must be off. Think over what I've been saying. It'll all look brighter in the morning."

"Like heck it will. Cheerio."

Leslie met Harry Hayes some months later at a show in town. Afterwards, they went to a quiet club and talked shop. Harry was busy with some harbour work and evidently enjoying the job.

"Incidentally, we now have a company safety officer—a hearty individual who worries the daylight hours out of us, but somehow manages to be helpful."

"Was this the result of your recommendation?"

"My—? Good Lord no! I'd have been thrown out on my ear if I'd suggested anything like that. This happened very differently. Shortly before I left my last job our people started a building con-

tract about a couple of miles away. The local factory inspector—my old pal—turned up one afternoon and gave it a going over, but believe it or not he couldn't find a thing wrong. The General was just escorting him back to the office when a load of men came down on the goods hoist—it was nearly finishing time—and landed about ten feet way. At that point the hoist driver, at the top level, suddenly realised his mistake and hauled on the rope, and they all shot up back to the second floor. Then the chaps started bawling, so he sent them down again. By that time the General must have lost his head, because he turned to the inspector and said 'it's all right, they only come down this way at knocking-off time.'

"And that, my friend, is how we got our new safety officer!"

## SEVEN-STOREY WINDSCALE ADMINISTRATION BLOCK

John Laing Construction, Ltd., are to start work shortly on the construction of a seven-storey office block at Windscale Works, Sellafield, Cumberland, for the United Kingdom Atomic Energy Authority.

The building, due for completion by July 1962, will be of reinforced concrete frame construction with concrete floors and brick cladding. The architects are R. S. Brocklesby, A.R.I.B.A., of the U.K.A.E.A. and Cruickshank and Seward, consultant architects; the consulting engineers are C. S. Allott and Son.

## £13M. FYLINGDALES BUILDINGS CONTRACT

The value of the recently announced Air Ministry contract with Holland & Hannen and Cubitts (Scotland), Ltd., for buildings at the Fylingdales R.A.F. Station, is estimated at £1,750,000. Work will commence immediately, and will comprise erection of three technical radar buildings and domestic and administrative structures, forming part of the ballistic missile early warning station. Sir Alexander Gibb and Partners, Queen Anne's Lodge, London, S.W.1, are the consultants.

## BRANCH MANAGERS' CONFERENCE

The Bowmaker Group branch managers' conference was held at Bowmaker House, Bournemouth, on Saturday, March 18.

In the evening the group chairman, Sir Arthur Morse, and directors entertained the 155 delegates to dinner at East Cliff Court Hotel and Sir Arthur made presentations to mark the completion of 25 years service by:—J. N. Stephenson (collection manager); A. T. Coles (branch manager, Gloucester); E. A. Riches (inspector—Branch Administration); A. R. Combes (chief clerk, Croydon); L. P. Galpin (inspector—Branch Inspection); V. C. King (branch manager, Norwich); L. A. Moore (area manager, Birmingham); G. T. Barrow (branch manager, Swindon); K. S. Thornton (credit controller) and R. L. Rees (cashier).

## RUBBER MANUFACTURERS FEDERATION

The Federation of British Rubber and Allied Manufacturers report that 170 rubber manufacturing firms have joined the Federation under their new scheme for direct membership of individual firms. This represents between 85 and 90 per cent. of the industry.

In addition, 21 trade associations and product groups are included in the ordinary membership, and 47 firms supplying synthetic rubber, machinery, chemicals and components to the industry are associate members.



"If you don't believe me, come down and have a look—mind you, it's only a 3ft. pipe!"



## PRESSURE ON DEMAND FOR LABOUR HAS BEEN RISING AGAIN

### Slackening in Short-Time Working

AT the end of 1960 some 23.7m. people were in civil employment in Great Britain, nearly 400,000 more than at the end of 1959. This was a markedly bigger rise than in most post-war years, and was greater than the increase that took place between 1955 and 1959.

According to the Treasury's "Bulletin for Industry", the rise was maintained throughout most of the year, reflecting the fall in unemployment, the reduction in H.M. Forces, and the influx of school-leavers and of substantial numbers of married women. There was some fall as usual in December, which continued into January 1961.

In 1960 more than half the gain was in manufacturing (190,000), with engineering and electrical goods up by nearly 5 per cent. (100,000). Most of the increase outside manufacturing was in distribution (+70,000), financial, professional and scientific, and miscellaneous services (+100,000), and in construction (+40,000). Coalmining fell by 50,000.

The number of unemployed fell more rapidly than seasonally up to August, but during the last two months of 1960 the changes were no more than seasonal. The movements in the number of unfilled vacancies were similar, with the rise up to the summer greater than normal, and the fall in October/December rather more than usual. Together these figures suggest that the rising pressure of demand for labour slackened at the end of last year states the Treasury, but since then the pressure has been increasing again slightly.

#### Short And Overtime

Movements in short-time and overtime also suggest that some slackening in total demand occurred. The amount of short-

time worked rose rapidly in the fourth quarter and at the end of the year the number of operatives affected was 139,000, against 126,000 at end November. There was a further rise to 154,000 at end January 1961. Detailed figures are not available for later than November, when the loss in the last week was 11½ hours on average for each worker, about 1.4m. hours in all during the week. The figure for August was 31,000 operatives losing 9½ hours each. Less than 2,000 of those working short-time in November were stood off for the whole week.

Although the rise in short-time working has been marked, the time lost was small in relation to total employment—the November figure was equivalent to a reduction in the labour force of about 36,000 people. Overtime on the other hand was large, but the rise of about 500,000 hours between August and November was rather less than usual for the time of the year; 1.8m. operatives were then working 14.4m. hours of overtime, equivalent to an addition to the labour force of about 350,000 people, nearly ten times the short-time equivalent.

Between December 1960 and January 1961 the main increases in short-time working were in the motor vehicle and cycle groups, partly offset by falls in textiles, food, drink and tobacco, engineering and electrical goods. Motor vehicles manufacture made up about half the total: in recent weeks the major motor manufacturers have announced their return to full-time working. Short-time working has occurred mostly in industries which have to face seasonal fluctuations in demand, or in those which have had sudden sharp falls in demand but with reasonable expectations of subsequent expansion. But the fact

that the easing of pressure of demand took the form of an increase in short-time working meant that very few people were made available for employment in industries short of labour.

#### The Regional Picture

The unemployment percentage (which includes the wholly unemployed, temporarily stopped and school-leavers) for Great Britain at mid-February was 1.7, with a spread from 1 per cent. in the E. and W. Ridings, to 3.5 per cent. in Scotland. In February 1960 the percentage for Great Britain was 2.0 with a spread from 1 in the Midland to 4.7 in Scotland. Thus the gap between the regions has been reduced substantially, and only in the Midland Region was the unemployment percentage higher this year than last; this increase was accounted for by short-time working in the motor industry.

In all regions the rise in the number wholly unemployed (excluding school-leavers and the temporarily stopped) between December and January was less than normal, while between January and February, usually a period of little change, there were considerable falls in all regions especially in the North, Scotland and Wales. The movement of vacancies pointed similarly to tightening demand; the total rose by over 9,000 between January and February, against the normal rise of less than 4,000, to 290,000. There were more vacancies unfilled than a year earlier in all regions except the Midland.

#### In Sum

The pressure of demand for labour, which was high throughout the period, eased slightly towards the end of 1960, but has risen a little since the end of the year, adds the Treasury. The fall in demand for cars and some other durables led to a sharp rise in short-time working in the second half of 1960, but in recent weeks major firms in the motor industry have announced a return to a 5-day week. Over the twelve months the position of the regions of relatively high unemployment has improved, while the changes elsewhere have been mostly small.

## TOLLS WOULD BE INCREASED TAXATION, SAYS B.R.F.

INDUSTRIAL concerns and the general public—people without cars as well as those with them—have been warned by the British Road Federation not to be misled by suggestions which favour imposing tolls on new motorways.

The Federation's April Bulletin says: "It is as well to recognise at once that toll charges on roads built by the Government are a form of increased taxation and not, as 'inspired statements' are suggesting, a method of relieving the taxpayers' burden".

Also, tolls would not help to get more roads built. In the past the Government has said there were not enough men, materials or machines to build at the same time all the schools, hospitals, power stations, roads and other items of capital equipment needed. But a conscious Government decision as to priorities would mean the allocation of resources to modernise the highway system... and the imposition of tolls has nothing to do with this.

The Federation points out that road users are paying in taxes over four times more money than is being spent on roads, and takes Government spokesmen to task for quoting the example of America as an excuse to suggest tolls.

"What is not mentioned," says the Bulletin, "is that a very high proportion of road user taxes has been spent on roads in America, and that toll roads have been

built because the need for still further roads has been recognised".

The view of the American public was put a few years ago by the National Highway Users Conference, which declared: "The toll method of financing has not been favoured by either the highway user or the Federal Government".

Yet only last month Mr. John Hay, Joint Parliamentary Secretary to the Ministry of Transport, implied in Parliament that Washington was the protagonist of toll roads. It appeared that Mr. Hay, who was speaking as the Government's representative, was also unaware of a statement made by President Kennedy in a Special Message to Congress at the beginning of March.

The President, referring to the need of financing the extra cost of the huge programme of new road building now being carried out, said the answer was not to be found in tolls on roads that "ought to be free".

#### FEBRUARY HOUSING FIGURES

The number of permanent houses completed in Great Britain during February was 22,300 (compared with 20,772 in February, 1960), of which local authorities were responsible for 8,423 and private builders for 13,350.

## ENGLISH ELECTRIC TURBINES CONTRACT

A contract for two 84,000-h.p. hydraulic turbines has been awarded to the English Electric Division of John Inglis Co., Ltd., Toronto, by The Hydro Electric Power Commission of Ontario.

Design work and model testing will be done in the U.K. by English Electric's hydro-electric division at Netherton and Rugby. Work will start immediately on the fixed blade propeller type units with manufacturing operations scheduled to begin late this summer. The turbines will be designed to operate at 90 foot head at 94.7 r.p.m. When completed towards the end of 1962, the turbines will be installed at Ontario Hydro's Little Long Rapids generating station on the Mattagami River, some 500 miles north of Toronto, Ontario.

## BICC FORM PLASTICS COMPANY

British Insulated Callender's Cables, Ltd., announce the formation of a new company, Telcon Plastics Ltd. Centred at Green Street Green, Orpington, Kent, the company will take over the entire range of activities of the Plastics Division of The Telegraph Construction and Maintenance Co., Ltd.

The board of directors will be: W. C. Smith, chairman; J. L. Fergus, general manager; D. Norman-Thomas, and H. F. Wilson. The company secretary will be L. G. F. Sliney.



### COSTS MUST BE WATCHED, SAYS MINISTER

A **W**ARY eye must be kept on building costs, warned Mr. R. Thompson, Parliamentary Secretary to the Minister of Works, when he addressed the annual luncheon of The National Federation of Demolition Contractors held in London recently.

The building programme would continue at a high level during 1961, Mr. Thompson said, and 1962 looked good. But if costs rose excessively, the rate of building would slow down.

It was appropriate, he stated, that the Ministry of Works should be represented at the luncheon in the year during which the Federation came of age, for the Ministry had had a great deal to do with founding the Federation.

Some people still thought that demolition work today was the rough and ready business of years ago. How very wrong they were, for it was a highly skilled craft, calling for skill of a high order if fatalities and injuries were to be avoided.

If there was to be any countryside left at all, the country must make efficient use of existing sites in congested areas, and this was where skilful demolition was needed.

Other speakers at the luncheon included Mr. S. B. Allison, the president; Mr. M. M. Hunter, chairman of the Scottish Region; Mr. W. J. Balderstone, honorary vice-president; and Mr. J. H. Melville-Richards, president-elect of the Institution of Municipal Engineers.

At the annual general meeting held prior to the luncheon Mr. Samuel B. Allison, of Samuel B. Allison, Ltd., was elected the new president of the Federation, and Mr. F. E. Hooker, of Demolition and Construction Co., Ltd., was elected vice-president.

With Mr. Allison and Mr. Hooker, the Council of the Federation now comprises Mr. W. Horrocks, Mr. W. J. Balderstone and Mr. M. N. Penfold, all three of whom are honorary life vice-presidents; Mr. M. M. Hunter, chairman, Scottish Region; Mr. M. C. Walker, chairman, North-Western Region; Mr. J. Childs, chairman, North-Eastern Region; Mr. P. Scott, chairman, Midland Region; and Mr. R. Ashton, chairman, London and Southern England. Newly elected members of the Council consist of Mr. C. J. Brown, Mr. E. M. Cann, Mr. L. J. Flack, Mr. S. T. Green, and Mr. J. Norris.

### SOHO'S MIXED DEVELOPMENT NEARS COMPLETION

**I**LLUSTRATED below is a general view of Kemp House, Berwick Street, Soho, which has as its central feature a 170ft. tower block.

Built for the Westminster City Council, Kemp House is the first mixed development in London's central area. It consists of 57 flats located in the tower block, shops incorporating a public house at



ground level facing Berwick Street (site of the famous open-air market), and offices at first and second floor levels. A basement car park for 24 vehicles is also provided.

Designed by architects, Riches and Blythin, F.R.I.B.A., and built by Wates Ltd., the building is of reinforced concrete frame construction and covers an island site 320ft. long by 75ft. wide, bounded by Berwick Street, Hopton Street, Peter Street and Kemp Court.

The contract is scheduled to be completed by May 1961. The Wates site agent is Mr. M. J. Cheval.

### INSTITUTION OF STRUCTURAL ENGINEERS' ELECTIONS

**T**HE following candidates were elected to membership of the Institution of Structural Engineers on March 23, 1961:

#### Students

G. Browne, Luton; D. Cockbill, Salisbury, Southern Rhodesia; K. S. Fernando, Colombo, Ceylon; S. A. Hyde, Willesden, N.W.10; A. E. Johnson, Wilmslow, Cheshire; J. I. Mbaezue, Zaria, Nigeria; A. Parks, Middlesbrough; M. Salim, District Sheikhupura, West Pakistan; U. N. Srivastava, Uttar Pradesh, India; D. W. Walker, Morecambe; P. Wem, Middlesbrough; J. G. M. Wood, Frensham, Surrey.

#### Graduates

J. E. Adams, Sutton; F. Arthern, Stockport; D. M. Bevan, Winterbourne, Bristol; B. A. Brown, Winchester; M. A. Chandrachud, Poona, India; B. S. Coles, Horley, Surrey; J. Crocker, Loughborough; C. S. Desai, Bombay, India; C. L. Dhar, Bombay, India; M. T. Froggatt, Leamington Spa; A. F. Granby, Liverpool; M. H. Green, Kingsworthy, near Winchester; G. Henney, West Wickham; D. B. Horler, Whitchurch, Cardiff; E. O. Imegwu, Bristol; M. K. Jaday, Manor House, N.4; F. K. Kong, Leeds; T. A. Martin, Kingsway, W.C.2; G. C. Mitra, W. Germany; P. Nie, N.W.4; M. J. O'Callaghan, Newport, Mon; R. J. Rance, Tring, Herts; J. Sher Kar Kit, Holmcroft, Staffs.; C. D. Solanki, Acton; P. J. Steer, Hounslow; A. Than, Rangoon, Burma; P. Thirumal, Kopay, Ceylon; V. N. Tolat, Hampstead; A. P. Udeaja, W.14.

#### Associate-Member

R. E. Rowe, Langley, Slough.

#### Member

J. McNulty, East Didsbury, Manchester.

### B.C.A.S. ANNUAL LUNCHEON

The annual luncheon of the British Compressed Air Society was held in London recently. Mr. E. A. Martin, whose two-year term of office as president ended later in the day, presided.

Mr. E. C. Beck, managing director of John Mowlem and Co., Ltd., and chairman of the Council of the Export Group for the Constructional Industries, spoke to the eighty-five members present, on the subject of the constructional engineering industry overseas. He mentioned that, in spite of financial, and in some cases political, risks, work abroad by U.K. constructional engineering firms amounted to £130 million per annum; and referred to the great amount of plant, including compressed air equipment, required for any large contract.

In the early evening of the same day, Mr. G. H. Hardy of the War Office gave a technical address on the testing of air compressors required for arduous conditions.

### CHARTERED SURVEYORS ANNUAL CONFERENCE

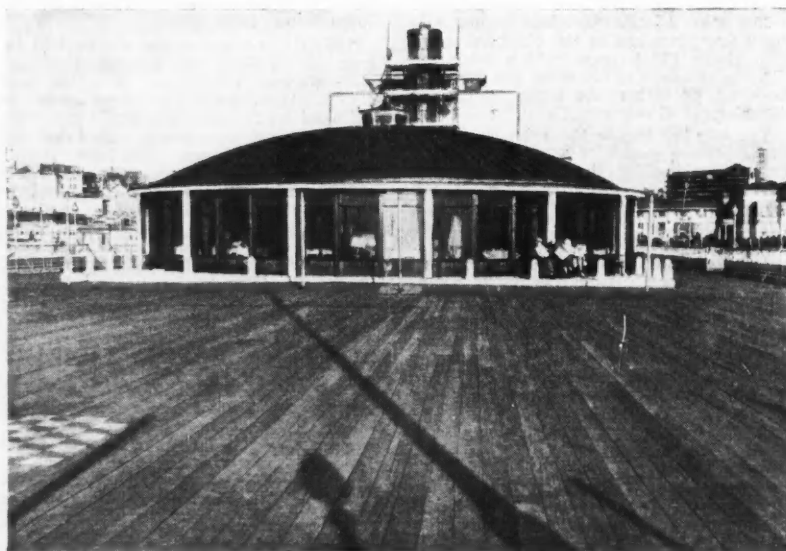
The Chartered Surveyors Annual Conference will be held this year at the University of Leicester, from July 4-8.

The theme of the conference will be "The Art of the Surveyor in Practice", and the principal speakers will be Lord James of Rusholme, High Master of Manchester Grammar School; Sir William Hart, C.M.G., Clerk of the London County Council; and Professor Philip White, M.Sc., F.R.I.C.S., of the University of British Columbia.

### BANWEN DISPOSAL POINT CONTRACT

Wilson Lovatt and Sons Ltd., have secured the Banwen Disposal Point Contract, comprising the removal of an existing washery and screening plant and re-erection at Banwen, near Glynneath, South Wales, together with extensive railway sidings and access roads, wagon tippler and ancillary works.

The contract, which is being carried out for the National Coal Board Opencast Executive, is valued at over £300,000.



Bournemouth Borough Engineer's Department have recently completed the redecking in Jarrah of both the Bournemouth pier (pictured here) and the Boscombe pier. The boarding used was 2in. x 6in., laid on 4in. x 9in. joists at Bournemouth and 4in. x 8in. joists at Boscombe. The decking is secured by 4 1/2 in. No. 16 gunmetal wood screws and cups



## COMMERCIAL AND HOLIDAY TRAFFIC ROAD BOTTLENECK GOES

THE road from Weymouth to Portland Bill, which partially follows the line of Chesil Beach, is in places, very narrow and winding. The section which rises beyond the town of Fortuneswell, Portland, to the top of the hill affords a magnificent panoramic view of Chesil Beach, but is only some 18ft. 6in. wide and has gradient in places of one in eight. This road carries all the traffic connected with the business of the island, including heavy vehicles from the Portland Stone quarries. It is the main route for public service vehicles and for all the holiday traffic to the island, constituting a major bottleneck in the road system, particularly during the summer months.

The original carriageway was both narrow and dangerous in that no provision was made for pedestrians, and that on one section there was a particularly bad hair-pin bend. The road has therefore been widened to 24ft., with a footpath one side and 2ft. edge spacing under the retaining wall.

On the first stage approximately 5,000 cu. yd. of rock and earth over a length

of 1,000ft. were removed requiring an incursion into the hill side, varying from 6ft. to 15ft. in width. A J.C.B.4, fitted with a three-in-one bucket as a face-shovel, was used to remove the spoil, and load into a series of high-sided lorries for dumping. On completion of excavation, stone slabs reclaimed from the old quarry railway on the island were used to build a retaining wall on the upward side of the road.

The J.C.B.4, started work in September and has now completed the major job of earthmoving in a machine working time of 430 hours. The machine, was digging at an overall rate of 12 cu. yd. per hour with the face shovel; this overall rating included loading and positioning of lorries and waiting time.

The work was carried out for the Dorset County Council, (County Engineer, Mr. J. J. Leeming, B.Sc., M.I.C.I., M.I.Struct. E.) by the Portland Urban District Council, (Engineer, Mr. E. B. Cullin, M.I.Mun.E., A.I.A.S.D.). The J.C.B.4, was hired from Eddison Plant Ltd., of Dorchester.



J.C.B.4 removes spoil into high-sided lorry

## LAND VALUES AND PLANNING

### "Renewed Consideration Needed"

THE 62nd annual report of the Town and Country Planning Association says that "renewed consideration needs to be given to the question of land values as affected by planning. The fact that planning decisions can selectively enrich some among many owners creates a sense of injustice between private persons, while a sense of injustice to the public is aroused in view of the large sums of compensation that have been paid for prohibitions of development. There is also an obvious danger of administrative corruption."

The report stresses the need for "a more thorough-going dispersal policy as the condition of the proper renewal of the fabric of the older towns. The case for this has been intensified in scale and urgency by recent estimates of the growth of population in the next 20 years and thereafter."

The Executive Committee is undertaking studies of the country's principal urban regions. These will estimate the amount of "overspill" and suggest sites for new towns and town expansions.

Redevelopment, too, calls for better co-

ordination of public and private action. "Piecemeal building on small plots is producing conspicuously bad results." "The time seems ripe for a more general application of the principle of unification of town sites under public or trust ownership coupled with grants of leaseholds to private enterprise."

The report also urges fuller co-ordination of the policies of Government departments concerned with planning, housing, employment location, agriculture and transport.

"It seems inescapable that Governments must exercise much control over the siting of employment establishments, 'leaving' as much freedom to private enterprise to choose locations as is consistent with such national necessities as the avoidance of over-concentration, and the economic strengthening of certain areas."

Production of sand and gravel in Britain during 1960 amounted to 76,248,000 tons, the highest yet.

## LOWEST TENDER POLICY CRITICISED

THE lowest tender policy did not necessarily produce economy, claimed Mr. D. A. B. Morgan, chairman of the British Association of Field and Sports Contractors, when he addressed the Association at their annual luncheon in London recently.

"Far too often," he said, "public and local authorities accept lowest tenders without regard to quality. The consequence of this can be inferior workmanship and materials. These in the long run only lead to trouble and great expense."

Speaking of the work of the Association, Mr. Morgan reported that they had co-operated with the National Playing Fields Association in the bringing up to date of specifications for recreation grounds. Great mechanical and technical advances had been made recently, and it was therefore important that new specifications should be drawn up. More important, if good and lasting results were to be obtained, these specifications must be followed by firms capable of complying with them.

Recently, members of the Association had constructed in the United Kingdom over 15,000 acres of playing fields, 3,500 tennis courts, and several hundred swimming pools, bowling greens and running tracks.

"But we are capable of doing even more," added the chairman, "and there is a crying need for more extensive recreational facilities in this country."

## ROBERT MCGREGOR AWARDED £250,000 CONTRACT

The Ore Mining Branch of The United Steel Companies have awarded a £250,000 contract to Robert McGregor and Sons Ltd., Brazenose Street, Manchester, for the design and construction of road and bridge works at Colsterworth, Lincolnshire.

The purpose of the contract is to provide a haulage road 3½ miles long to accommodate 27 cu. yd. dump trucks carrying iron ore from the open-cast quarry workings to the rail head.

To comply satisfactorily with the intensity of traffic, etc., the contractor's design of a rigid reinforced concrete pavement 30ft. wide and 12in. thick on a 4in. dry lean base was accepted. Two bridges, one single span and one double span, both of reinforced concrete will be constructed to carry existing county highways over the trucking road and an underpass is required for farm accesses.

It is intended that the bridge works and bulk excavation will be commenced shortly and the carriageways constructed in the summer of 1962.

## LANARKSHIRE ROAD IMPROVEMENT TO COST £798,000

A start is to be made on the improvement of 3½ miles of the Carlisle-Glasgow trunk road between Lesmahagow and Canderwater, Lanarkshire. The work, which has been authorised by the Secretary of State, Mr. John S. MacLay, is estimated to cost £798,000.

The scheme involves the provision of dual carriageways throughout the improvement, with accompanying slip roads, culverts, the constructing of five road bridges, and other ancillary works.

The successful contractors, as reported briefly last week, are J. Anderson and King, Ltd., Glasgow, and the contract will be carried out under the supervision of Babbie, Shaw and Morton, Ltd., consulting engineers, Glasgow, as agents for the Secretary of State.

Under a separate contract a bridge carrying the trunk road over the railway near Blackwood Station will be reconstructed. Babbie, Shaw and Morton will also supervise these works.



## FOR THE DIARY

### April 18

Meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1. "The Use of Specialised Plant in Airfield and Road Construction," by E. U. Broadbent and M. A. May.

### April 19

Quantity Surveyors General Meeting, R.I.C.S., London, 6 p.m. "The Use of Cost Prediction as a Guide to Planning and Design," by P. A. Stone, M.Sc.(Econ.), of the Building Research Station.

Annual general meeting of the Institute of Builders, Royal Festival Hall, London.

Annual conference of the Institution of Plant Engineers, Imperial Hotel, Blackpool, April 19-21.

### April 20

Traffic Engineering Study Group meeting at the Institution of Civil Engineers, Great George Street, London, S.W.1. Informal discussion—traffic planning and design of roads in Cumberland New Town—introduced by G. P. Crow.

Engineering, Marine, Welding and Nuclear Energy Exhibition, Olympia, London, April 20-May 4.

### April 21

Joint conference of Architects, Quantity Surveyors and Builders, University Arms Hotel, Cambridge.

### April 24

International Council for Building Research Studies and Documentation Colloquium on "Surface Finishing of Concrete," at Research and Development Station of the Cement and Concrete Association.

### April 25

Meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1. "The Inner Ring Road, Birmingham," by Sir Herbert Manzoni.

London Master Builders Association's lunch to the Lord Mayor, Savoy Hotel, London, 12.30 p.m.

### April 26

Annual meeting of the Institution of Mechanical Engineers, London.

Annual Conference of the Association of Rural District Council Surveyors, Blackpool, April 26-27.

Annual general meeting of the Lighthouse Club, Paviour's Arms, Page Street, Westminster, S.W.1. 6.30 p.m.

### April 27

Meeting of the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Composite Construction in Germany," by Dr. Ing. Konrad Sattler.

Traffic Engineering Study Group meeting at the Institution of Civil Engineers, Great George Street, London, S.W.1. Informal discussion—safety aspects of motorway design—introduced by W. F. Adams.

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification. Visit to Paris Sewage Treatment Works.

### April 28

Annual dinner and dance of the Building Surveyors Institute, Waldorf Hotel, London.

Annual general meeting of the Derbyshire branch of the Contractors' Mechanical Plant Engineers, Station Hotel, Chesterfield, 7.30 p.m.

### May 2

Annual general meeting of the Manchester and District branch of the Contractors' Mechanical Plant Engineers, Woodcourt Hotel, Brooklands Road, Sale, 7.30 p.m.

Meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1. "New Tunnels near Potters Bar in the Eastern Region of British Railways," by A. K. Terris and H. D. Morgan.

### May 3

Summer meeting of the Institution of Water Engineers, Buxton, May 3-5.

Railway Modernisation Conference, London, arranged jointly by the Institutions of Civil, Mechanical and Electrical Engineers, May 3 and 4.

### May 4

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. Federation of Master Builders London Region tour to East and West Berlin and Hamburg, May 4-11.

### May 5

Meeting of the Illuminating Engineering Society, Peebles Hydro, Peebles, Scotland, May 5-7.

### May 8

Half-yearly meeting of the National Federation of Roofing Contractors, Bournemouth, May 8-10.

### May 9

Meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1. "Auckland Harbour Bridge," by G. Roberts and O. A. Kerensky, who will discuss the design, and H. Shirley Smith and J. F. Pain, who will discuss the construction.

Annual general meeting of the Royal Institute of British Architects, Portland Place, London, 6 p.m.

### May 11

Joint meeting of the Institution of Civil Engineers with the Institute of Landscape Architects at Great George Street, London, S.W.1. "Collaboration between Engineers and Landscape Architects," by C. S. Chettoe and G. A. Jellicoe.

### May 13

Summer dance of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4, 7.30 p.m.

### May 16

Meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1. "St. Lawrence Power Project—Hydraulic Features," by O. Holden.

### May 18

Annual dinner of the Institution of Civil Engineers.

### May 24

Institute of Quarrying sixth short course "Transportation of Materials," Ashorne Hill Conference Centre, May 24-27.

### May 25

Annual general meeting and luncheon of the British Granite and Whinstone Federation.

Annual general meeting of the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1.

Visit of the Institute of Sewage Purification (Metropolitan and Southern Branch) to British Sugar Corporation, Peterborough, followed by a joint visit with members from the Midlands Branch to Peterborough Sewage Works.

### May 29

Annual general meeting of the Hants. and Sussex branch of the Contractors' Mechanical Plant Engineers, Black Dog Inn, Emsworth, 7.30 p.m.

Summer meeting of the Eastern Federation of Building Trades Employers, Clacton-on-Sea, May 29-31.

International Road Tar Conference, Harrogate, May 29-31.

### May 30

Unwin Memorial Lecture at the Institution of Civil Engineers, Great George Street, London, S.W.1. "The Work of the Institution's Research Committee," by Prof. J. F. Baker.

### June 5

Annual general meeting of Corporate Members of Institute of Public Cleansing, Music Hall, Aberdeen, 8 p.m.

Federation of Master Builders' National luncheon and annual general meeting, Connaught Rooms, London, 1 p.m. (Tentative date.)

## HIGHWAY ENGINEERS' ELECTIONS

THE following elections took place at the Institution of Highway Engineers on March 3, 1961:

### Members

L. P. Cole (chief engineer, Government of Ghana); M. Fay (civil engineer, Robert F. Earley and Partners); E. R. Gambrill (deputy county surveyor, West Sussex C.C.); R. L. Gee (borough engineer, Woolwich B.C.); E. G. Miller (senior executive engineer, M.O.T., Nigeria); A. J. Summerell (resident engineer, Gloucestershire C.C.); N. J. Taylor (senior assistant engineer, Dudley B.C.); L. M. Tebay (city engineer and surveyor, Ripon); P. J. F. Wingate (senior scientific officer, Road Research Laboratory).

### Associate Members

W. J. Bennett (engineering assistant, Blackpool B.C.); R. S. Bhati (assistant engineer, Kotah); K. Burkinshaw (chief engineering assistant, Rotherham R.D.C.); S. J. Clayton (engineering assistant, Huyton-with-Roby U.D.C.); W. M. Cook (civil engineering assistant, Dunbarton C.C.); W. H. Davies (assistant engineer, Cardiff City); G. B. Drew (assistant engineer, East Riding C.C.); R. O. Foulkes (chief assistant engineer, Stafford B.C.); F. E. Hocking (deputy engineer and surveyor, Leyland U.D.C.); K. H. Hohenkerk (engineering assistant, Worcestershire C.C.); T. H. Hough (deputy engineer and surveyor, Fleet U.D.C.); N. Howarth (senior assistant

engineer, Woking U.D.C.); E. C. Jacob (senior assistant engineer, Irvinestown R.D.C.); J. R. Jefferson (senior engineering assistant, Durham C.C.); J. M. McCluskey (assistant design engineer, Babbie Shaw and Morton); A. L. McCormick (assistant engineer, Hastings B.C.); W. S. McLean (assistant engineer, Babbie Shaw and Morton); P. B. O. Merchant (assistant engineer, Lagos Executive Development Board); R. T. Millar (assistant engineer, Dunfermline T.C.); J. E. Moore (assistant engineer, Coulsdon and Purley U.D.C.); J. D. Orme (senior engineering assistant, West Bromwich B.C.); M. L. Percival (senior engineering assistant, Durham C.C.); D. H. Pitman (engineering assistant, West Sussex C.C.); R. Ritson (engineering assistant, West Sussex C.C.); G. Robinson (senior engineering assistant, Durham C.C.); T. Robinson (senior assistant engineer, Durham C.C.); L. C. T. Sallabank (regional manager, G. Wimpey and Co., Ltd.); T. G. Seshan (senior executive engineer, P.W.D. Kajang); R. Sharpe (assistant engineer, Hastings B.C.); D. Shaw (senior assistant engineer, Durham C.C.); T. H. Shillam (senior engineering assistant, East Suffolk C.C.); J. Walker (engineer and surveyor, Brierfield U.D.C.).

### Affiliates

N. Franck (head of department, Cement and Concrete Association); J. M. Knight (divisional bitumen manager, Shell-Mex and B.P., Ltd.); K. S. Millar (area manager, Anglo American Asphalt Co., Ltd.).

## PLASTICS PIPE FOR WATER SERVICES

The General Extrusions Technical Committee of the British Plastics Federation, which originated specifications for low density polythene tubing, has for some time been working on the preparation of other specifications covering various grades of plastics pipe for cold water services and supply and for industrial uses.

As a result British Standards for unplasticised PVC and high density polythene pipe for these purposes are now being considered by a British Standards Institution Committee and are nearing completion. These drafts include recommendations for the jointing of these pipes.

### Hot Water Services

Questioned about reports of the use of thermoplastics pipes for carrying hot water, the chairman of the General Extrusions Technical Committee of the Federation, Mr. C. J. Clark, said: "The future possibilities of plastics in the field of hot water services are being investigated. At present, however, the Federation, which includes all the major British material manufacturers, does not recommend the use of thermoplastics for applications involving the continual passage of hot water".



**International Construction****PAKISTAN PLACE £1M. CONTRACT  
WITH HUNTING****Drainage Investigations in Indus Valley**

**T**HE Pakistan Government have placed a £1 million contract with Hunting Technical Services, Ltd., 6 Elstree Way, Boreham Wood, Herts., for carrying out drainage and salinity control investigations in the lower reaches of the River Indus.

Sir Murdoch MacDonald and Partners, London, have been engaged as engineering consultants for the project which covers an area of some 10 million acres.

Rising water tables and spreading soil salinity have been steadily reducing the agricultural output of the 23 million irrigated acres of the Indus plains. This problem had been studied for some considerable time, but only with the creation of the Water and Power Development Authority of West Pakistan a little over two years ago was any impetus given to the tackling of this encroaching danger.

Projects for draining the worst affected areas in the Punjab sector of the Indus Valley were started at the end of 1959, and Hunting Technical Services were invited to investigate and draw up plans for draining similarly affected areas in the former State of Sind; namely the lands irrigated from the Sukkur, Ghulam Mohammed and the currently building Gudu barrages on the River Indus.

These 1960/61 investigations aimed at determining the extent of the waterlogging and salinity problems and of deciding which remedial measures would best suit the different sub-regions of this area. The feasibility and economics of open drain or tube-well systems of drainage had to be compared, and the possibility of purely agricultural methods of water table control had also to be considered. In addition to this preliminary appraisal more detailed

studies of two project areas were also undertaken so that definite recommendations could be made and designs prepared for a 1961 start on the construction of the necessary drainage systems.

This new contract carries the preliminary general investigations of 1960/61 forward to the more detailed studies and designing, as well as to the preparation of contract documents for the required construction works of the remaining areas. The studies and design work will continue until October 1963, but the installation of drainage systems, whether by open drain or by tube wells, will start progressively as investigations are completed of separate smaller areas.

In addition to these various studies a pilot project of some 5,000 acres will be established at an early stage to compare construction and maintenance costs of land drained by open and by tile drains, and to provide a centre for carrying out various reclamation trials.

Hunting will be responsible for general planning and for the varied investigations such as soil surveys, soil permeability studies, groundwater studies and agricultural studies, while Sir Murdoch MacDonald and Partners will carry out the engineering investigations, design drainage layouts and the necessary structures, and will prepare contract documents and specifications.

The groundwater studies involve a programme of drilling and of test well construction and the British firm of Drilling and Prospecting International Ltd., associates of Turfitt Construction Corporation, have been re-engaged to extend the drilling programme of the earlier investigations.

**SOUTHERN RHODESIA  
BUILDING PLANS**

The value of building plans passed in Southern Rhodesia during 1960 totalled £13,033,000 compared with £17,177,000 during 1959.

Approval has been given for the construction of a dam at Bangala near Fort Victoria which may cost some £1½m. Plans are also going ahead for the erection of the Federal Government's projected multi-racial teaching hospital in Salisbury, which may cost some £1.4m., and which will be built adjacent to the University College. The sum of £666,000 has already been collected towards the setting up of a medical school at the College.

In Bulawayo more than £51,000 is to be spent during 1961 on new buildings and equipment at the Bulawayo Technical College.

**MAJOR ROAD SCHEME TO BE  
DISCUSSED**

A conference will be held in Canberra this month to work out priorities for a proposed system of bitumen roads throughout northern Australia.

The roads will cover about 4,200 miles and cost an estimated total of £A20 million. They have been advocated by the Federal Inland Development Organisation.

The Minister for National Development, Senator Spooner, said that the scheme had the support of the Federal Government. He believed there should be no undue delay in construction.

**MALAYAN HYDRO-ELECTRIC  
CONTRACT**

A contract for the supply and erection of mechanical and electrical plant for the hydro-electric power station at Habu, Malaya, has been awarded to Humphreys and Glasgow Ltd., London.

The new plant is part of a general development scheme in the Cameron Highlands in Northern Malaya. The contract has been placed by the Central Electricity Board of the Federation of Malaya, whose consulting engineers are the London firm of Preece, Cardew and Rider.

The plant consists of two 2,750 kilowatt hydro-electric generating sets together with auxiliary equipment for the power station. The water-wheels will be supplied by Gilbert, Gilkes and Gordon Ltd., Kendal and the alternators by Tecnomasio Italiano Brown Boveri of Italy.

Work has already started on the plant and is expected to be completed in just over two years time.

**HEAD WRIGHTSON'S  
AUSTRALIAN ORDERS**

Head Wrightson (Australia) Pty., Ltd., of Sydney, subsidiary of the U.K. company, have received orders valued at approximately £3½m. from The Broken Hill Proprietary Co., Ltd., and from Australian Iron and Steel, Ltd. The orders include the design, manufacture and erection of a scree ore treatment plant, a basic oxygen steelmaking plant and a tin plate cut-up line.

**£3M. YUGOSLAV PAPER  
INDUSTRY CONTRACT**

**A** CONTRACT worth more than £3 million for the establishment of a complete paper mill in Yugoslavia has been awarded the British firm of Millspaugh-Wimpey, Ltd., Hammersmith Grove, London.

The contract includes the design and supply of all plant and equipment as well as technical assistance in the erection of the mill at Plaski in Croatia about 60 miles by road south-east of the port of Rijeka.

Millspaugh-Wimpey will advise on the design of the civil engineering and building construction which will be carried out by Yugoslav organisations. More than 90 per cent. of the equipment for the project will be manufactured in Britain.

**ADEN MAIN DRAINAGE  
CONTRACT**

The Motherwell Bridge Contracting and Trading Co., Ltd., Aden, have been awarded a £172,500 contract by the Government of Aden for main drainage works (Contract No. 1) in the new development area at Sheikh Othman.

The works include approximately 3,500yd. of 30in. diameter shallow gravity outfall sewer, a sea outfall, 600yd. of 30in. diameter main sewer, 500yd. of 12in. diameter sewer and a pumping station.

John Taylor and Son, Westminster, are the consulting engineers, and the scheme will be carried out under the supervision of the Director of Public Works, Aden.

**NYASLAND CONTRACT FOR  
WILLIAMS AND WILLIAMS**

Reliance Metal Windows (Rhodesia) (Pvt) Ltd., of Salisbury, Southern Rhodesia, who are an associate company of Williams and Williams Ltd., of Chester, announce that the contract for standard steel windows and doors and pressed steel door frames awarded them by the Nyasaland Government Tender Supplies Board for a year's period in October 1959, has been extended for an additional twelve months until August 31 1961.

The original contract awarded to Reliance Metal Windows, represented a sales value of approximately £11,000. The extension is expected to cover a slightly larger amount over an equivalent period of twelve months.

**LARGEST OIL-FILLED BICC CABLE**

The largest oil-filled cable yet made for commercial operation by British Insulated Callender's Cables, Ltd., has been manufactured to the order of the Hydro Electric Power Commission of Ontario by BICC Power Cables Division, Erith Works, Belvedere, Kent. It is a single-core 230-kV cable and the 2.16 square inch conductor consists of six stranded segments laid round a central oil duct.

The cable has a reinforced lead alloy sheath and corrosion protection of self-vulcanising rubber, PVC and hessian tapes. Reinforcing bronze tapes, tinned to prevent galvanic action between the bronze and the lead alloy, are applied over the lead alloy sheath.

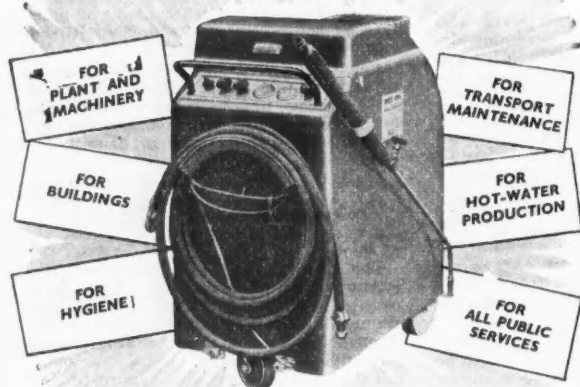
The new cable will provide two 3-phase circuits between Haig Junction and Applewood Junction in Toronto, each circuit being designed for operation at 230-kV with a rating of 540 MVA at 100 per cent. daily load factor and 680 MVA at 75 per cent. daily load factor with the adjacent circuit out of service.

Laying of the cables will be direct in the ground without ducts and in anticipation of a possible future load growth and an increase in the current carrying requirements of the cable circuits, three ½ inch internal diameter polyethylene water pipes will be installed with each circuit for cooling purposes.



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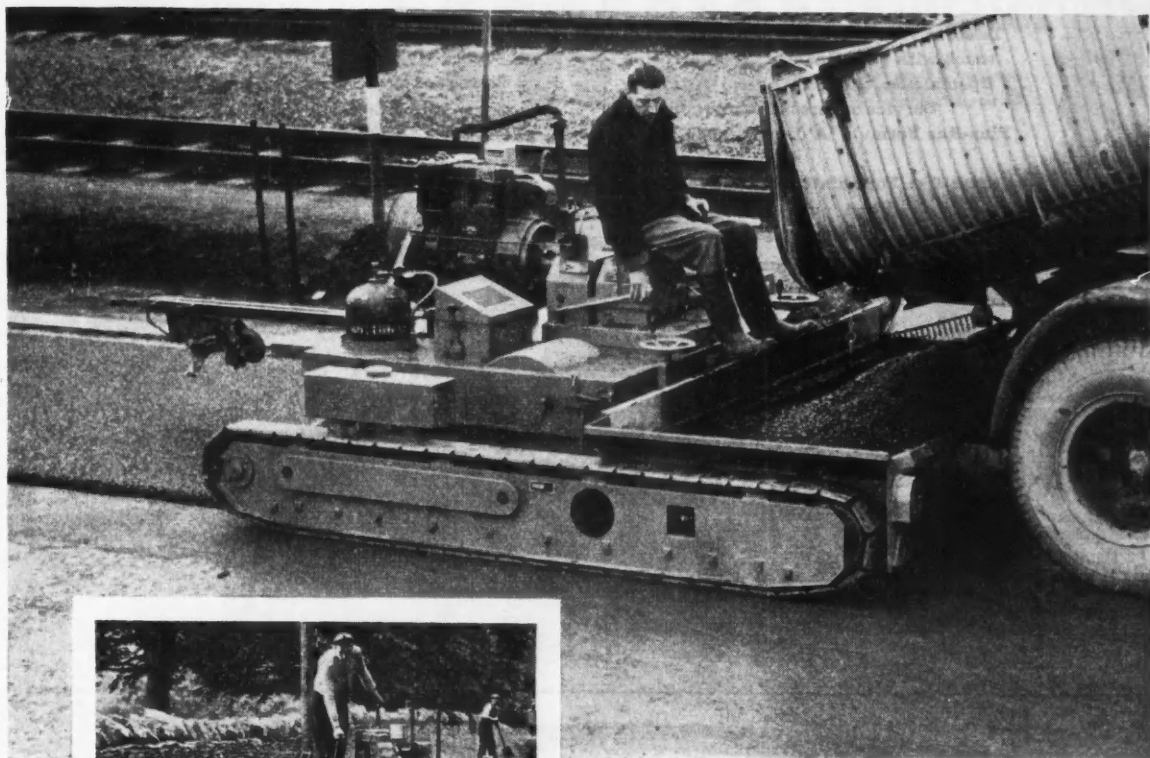
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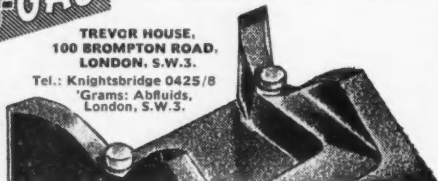
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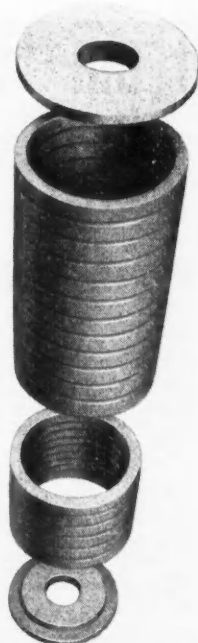


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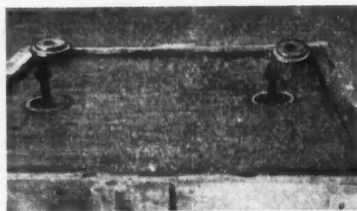
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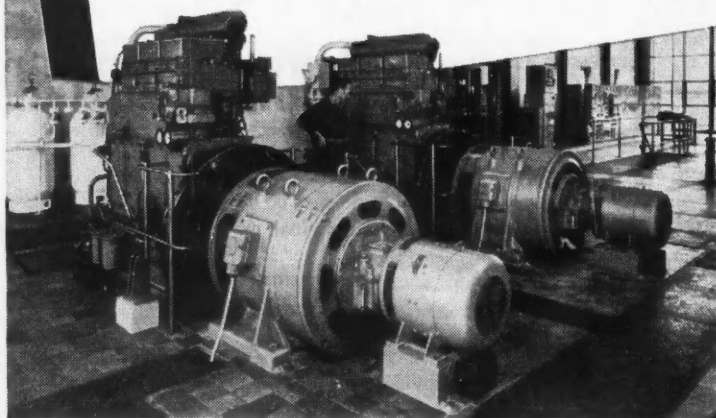
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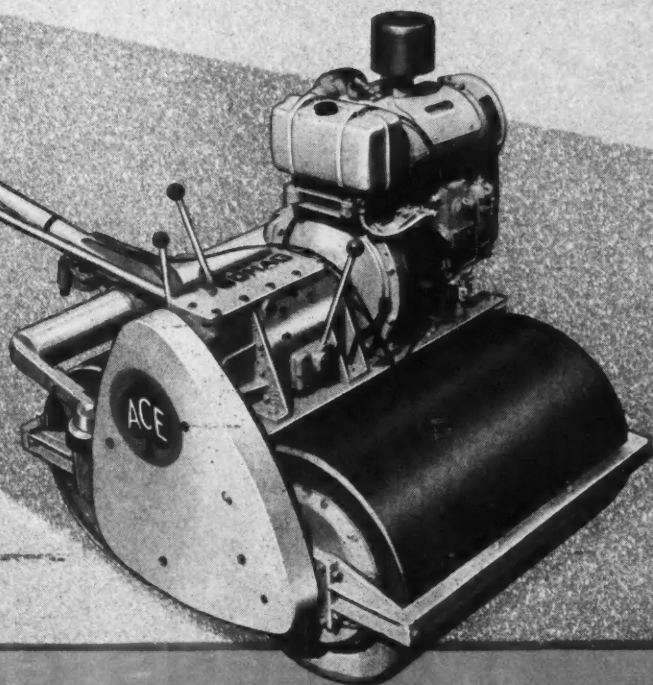
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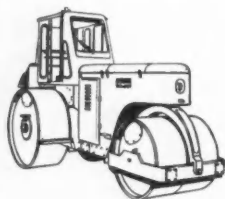
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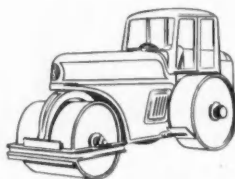
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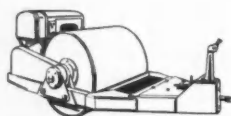
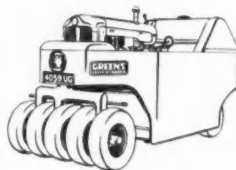
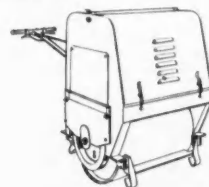
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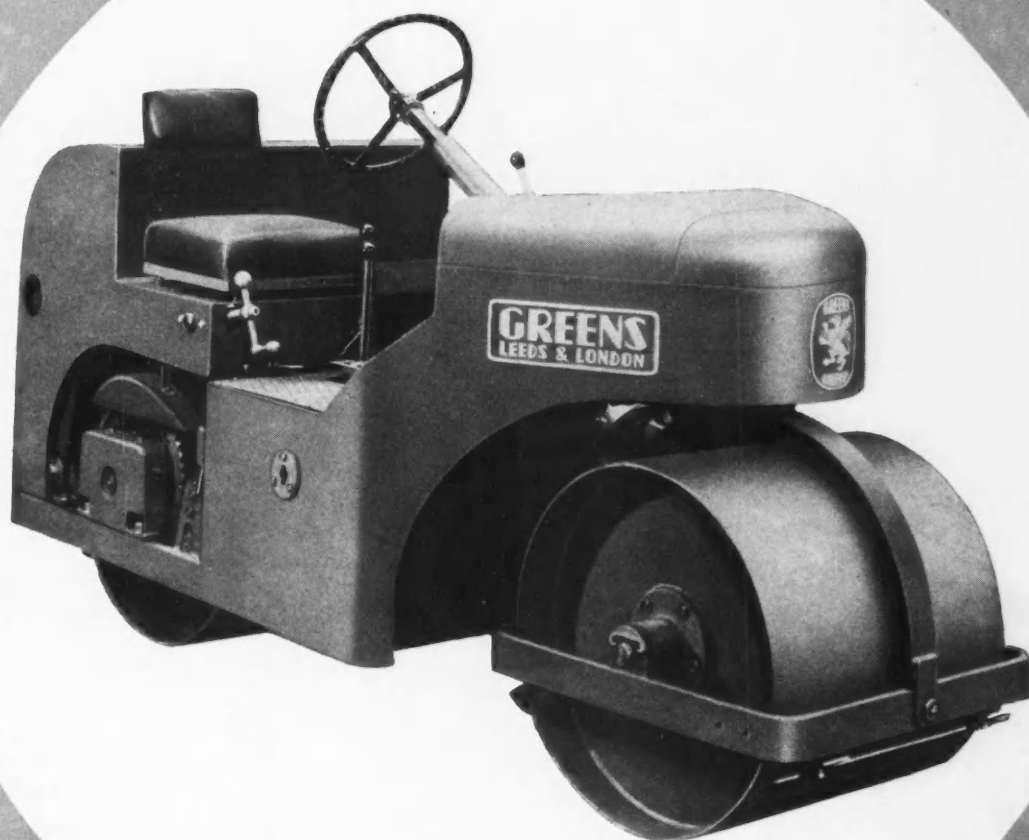
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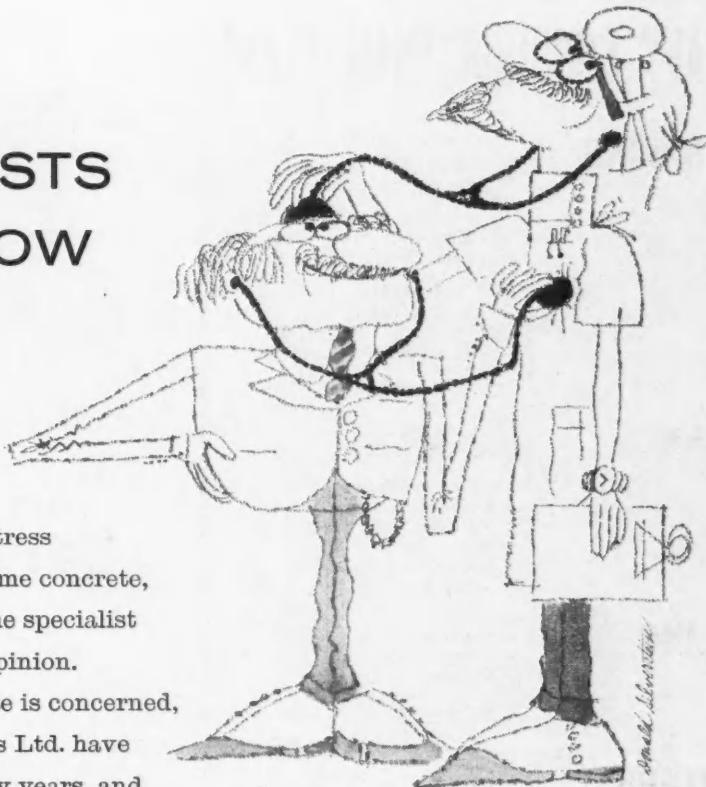
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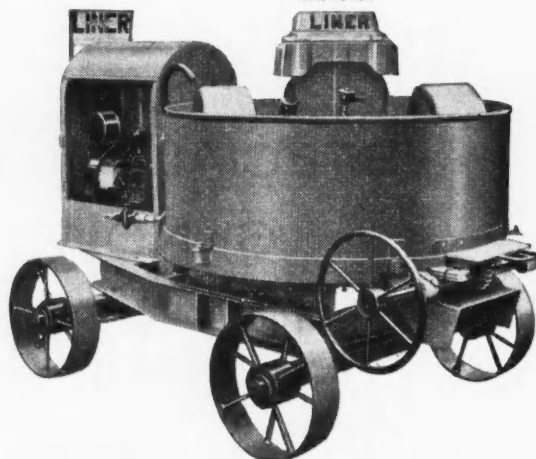
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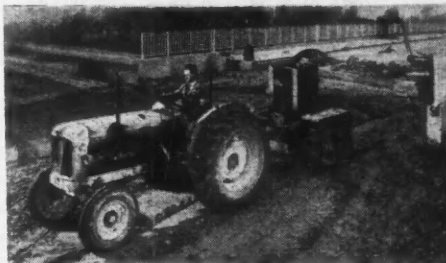
ONE of the latest projects in Britain's new road programme is the Maidenhead By-Pass, where much of the contractors equipment used for various operations is powered by Petter. This dual carriage-way stretches over 5½ miles, with as many as 15 new bridges at the intersections. All along the line the PETTER air cooled diesel keeps dumpers, mixers, pumps, saw-benches, vibrating rollers, hoists and other equipment, in action . . . continuously . . . reliably . . . and with the greatest possible economy.

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One of the new bridges required along Bucks County Council section of the new by-pass. On this site a vibrator roller is at work, powered by a Petter AVA2. (6 to 12 bhp at 1000 to 1800 rev/min.).

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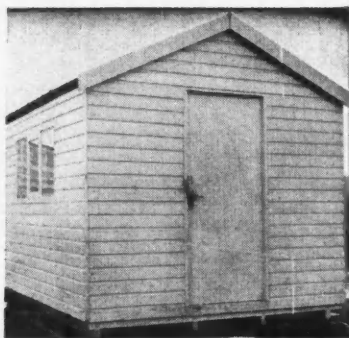
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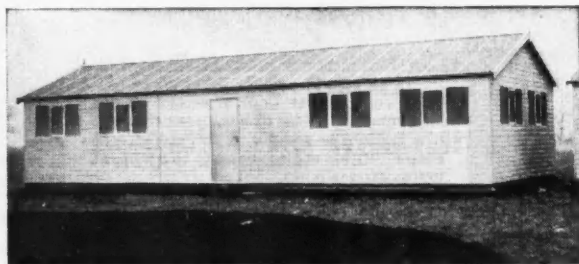
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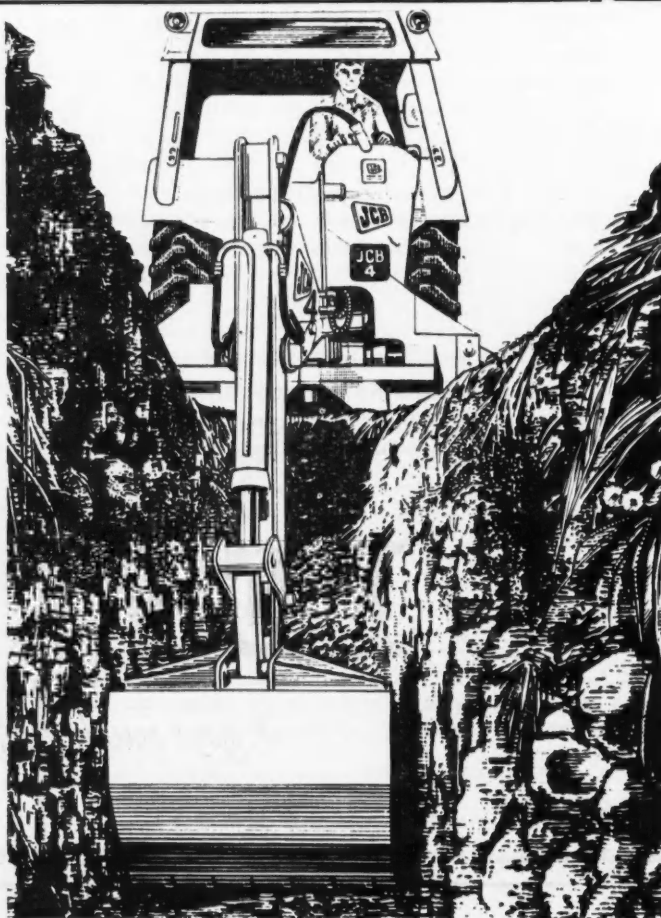
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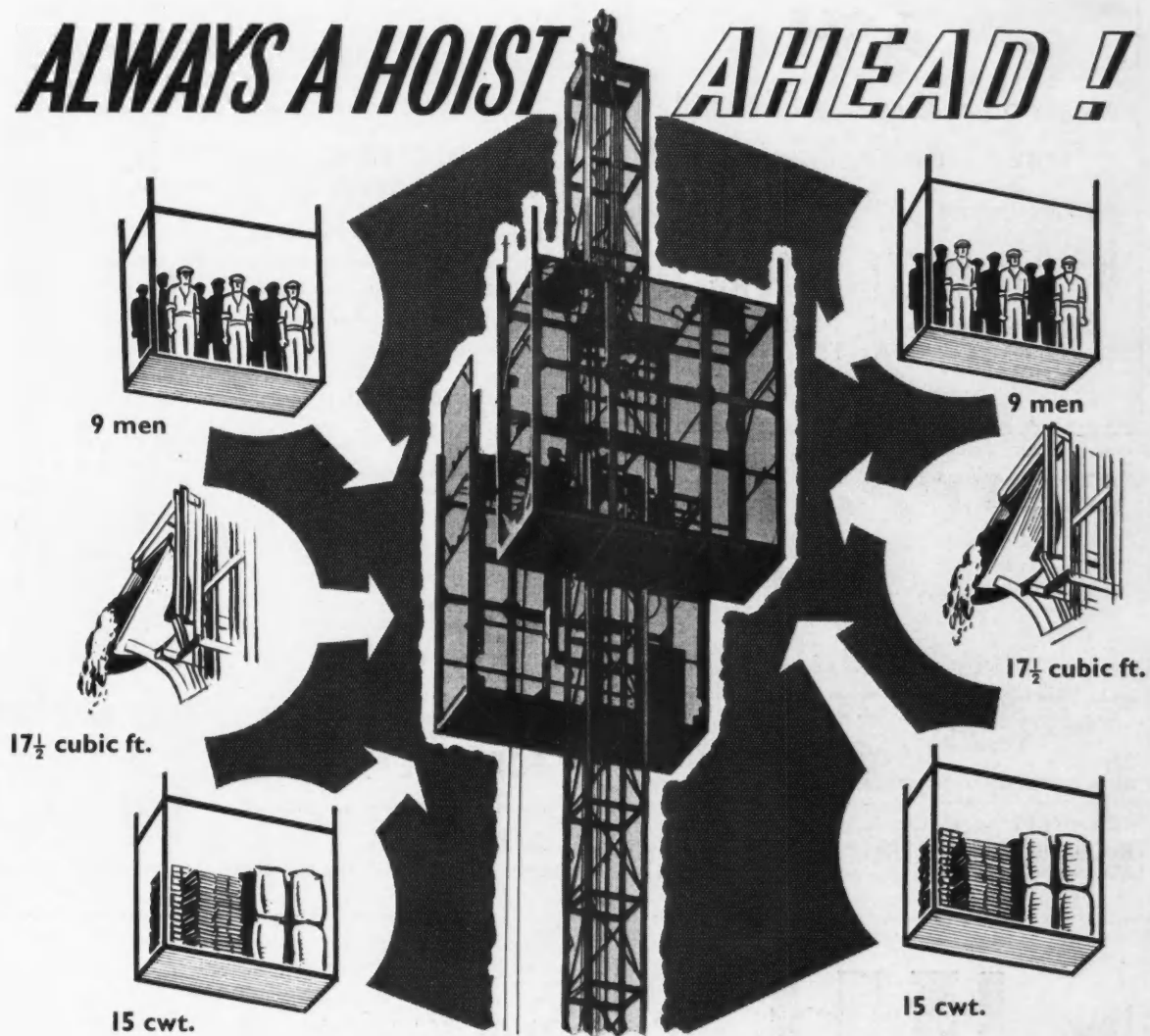
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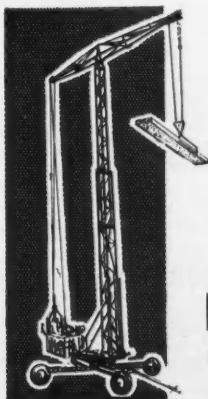


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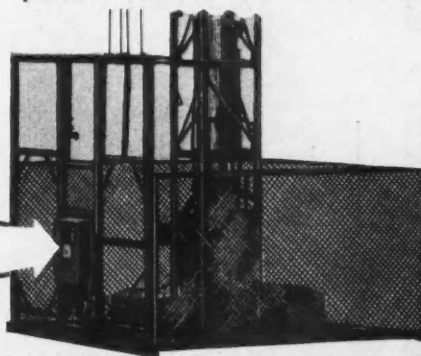
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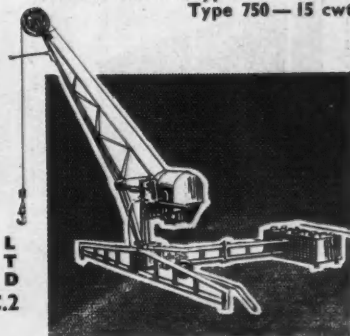


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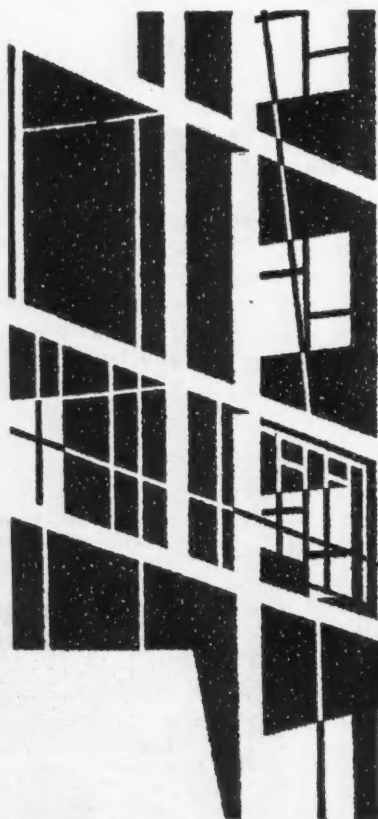
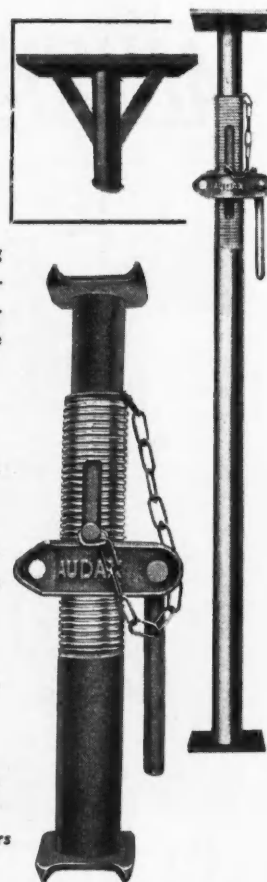
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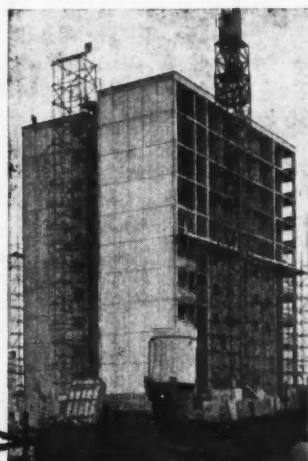
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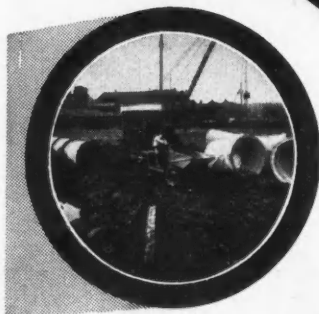
**TEMPLE BAR 0321/5**



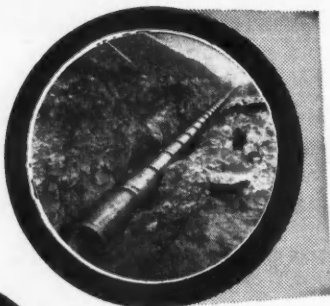


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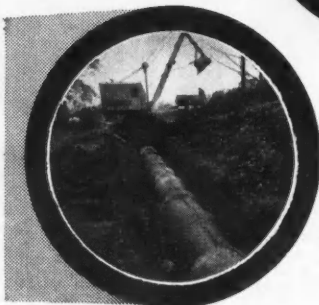
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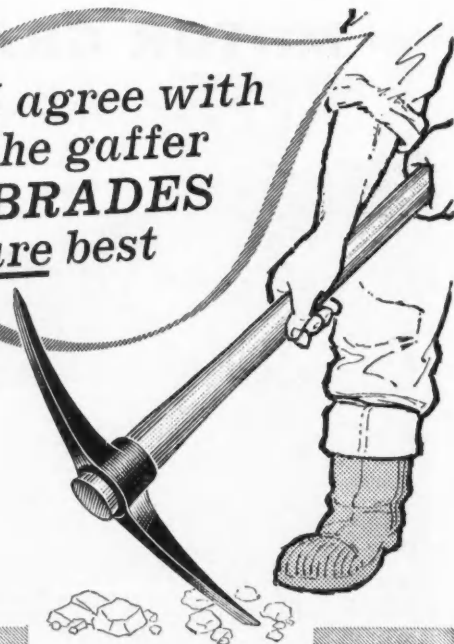
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(Continued from page 98)

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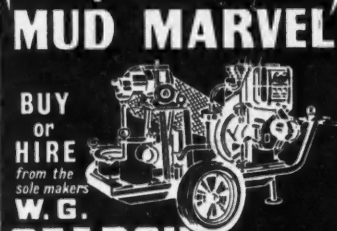
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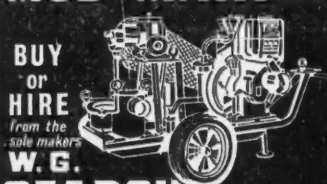
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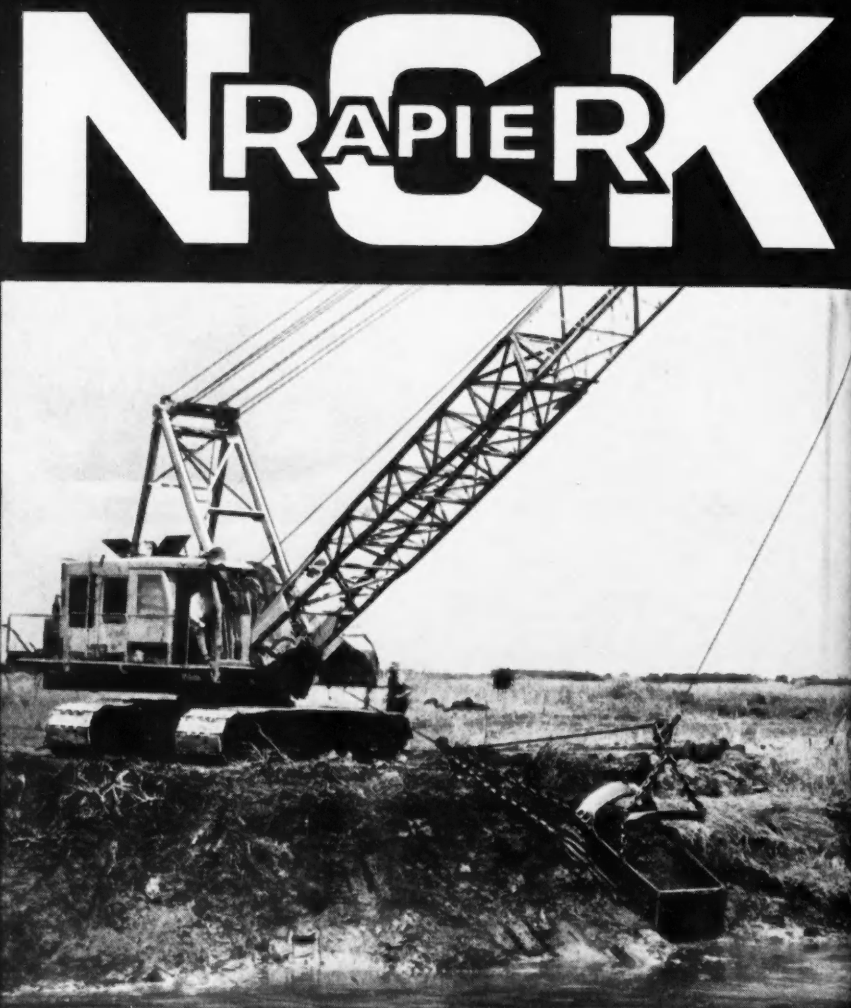
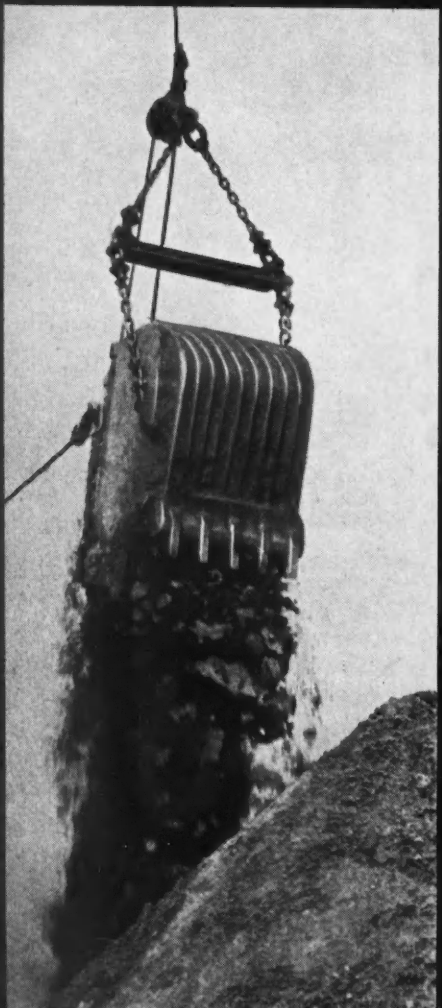
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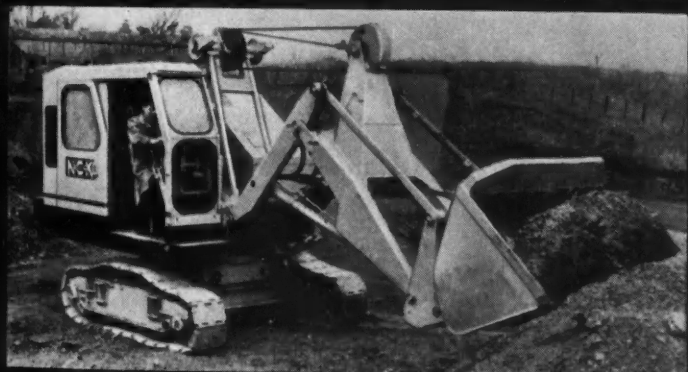
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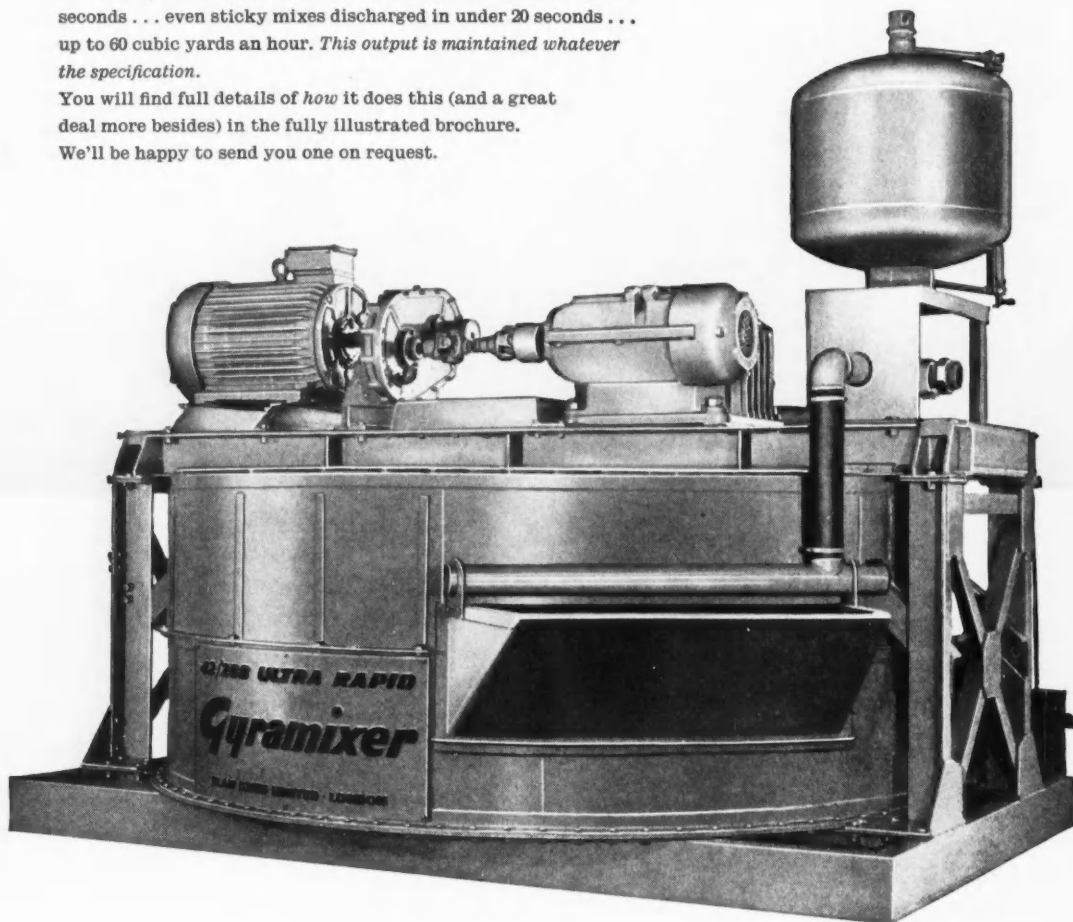
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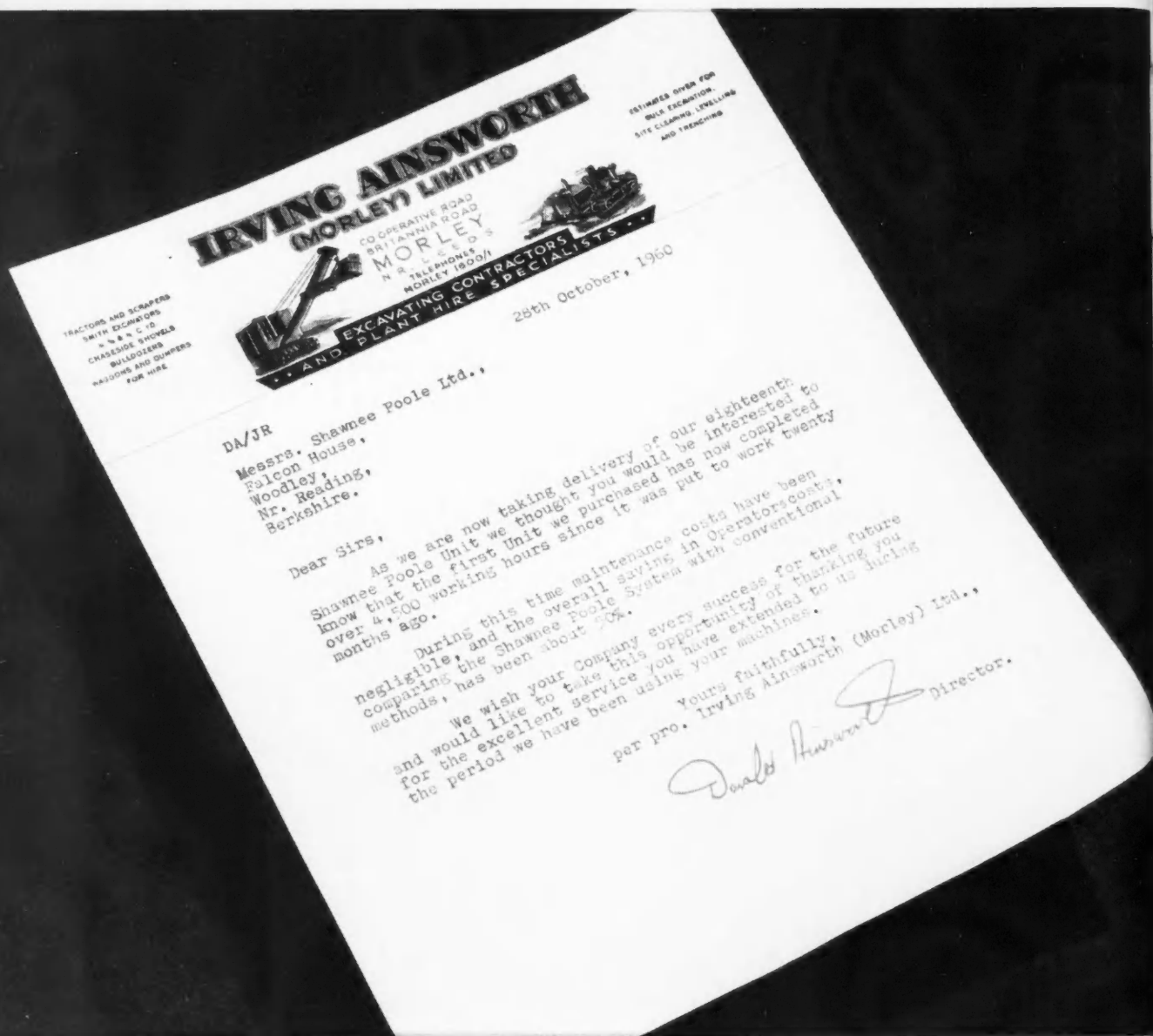
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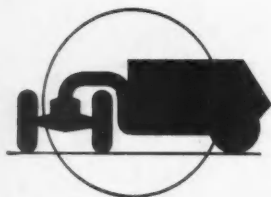
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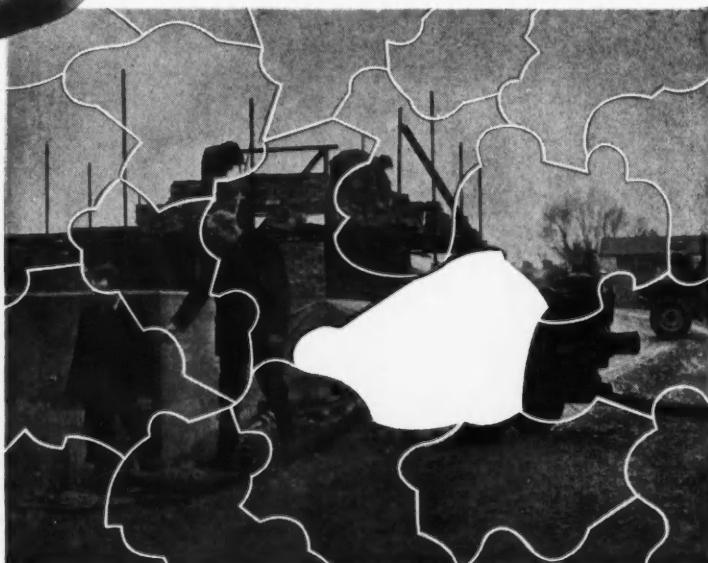
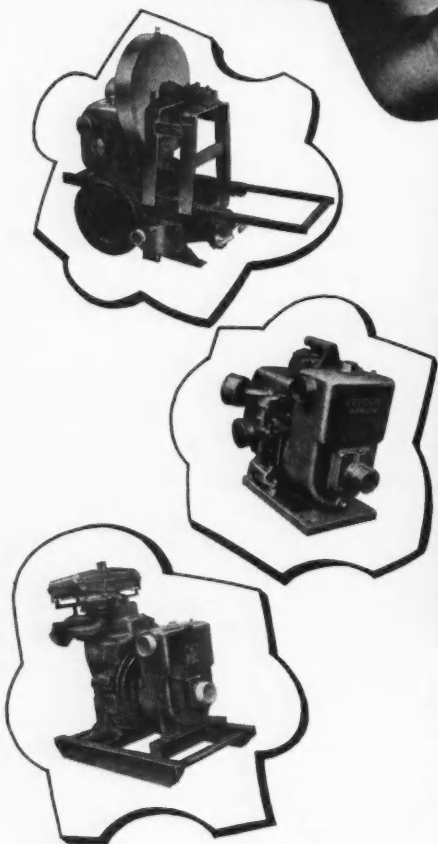
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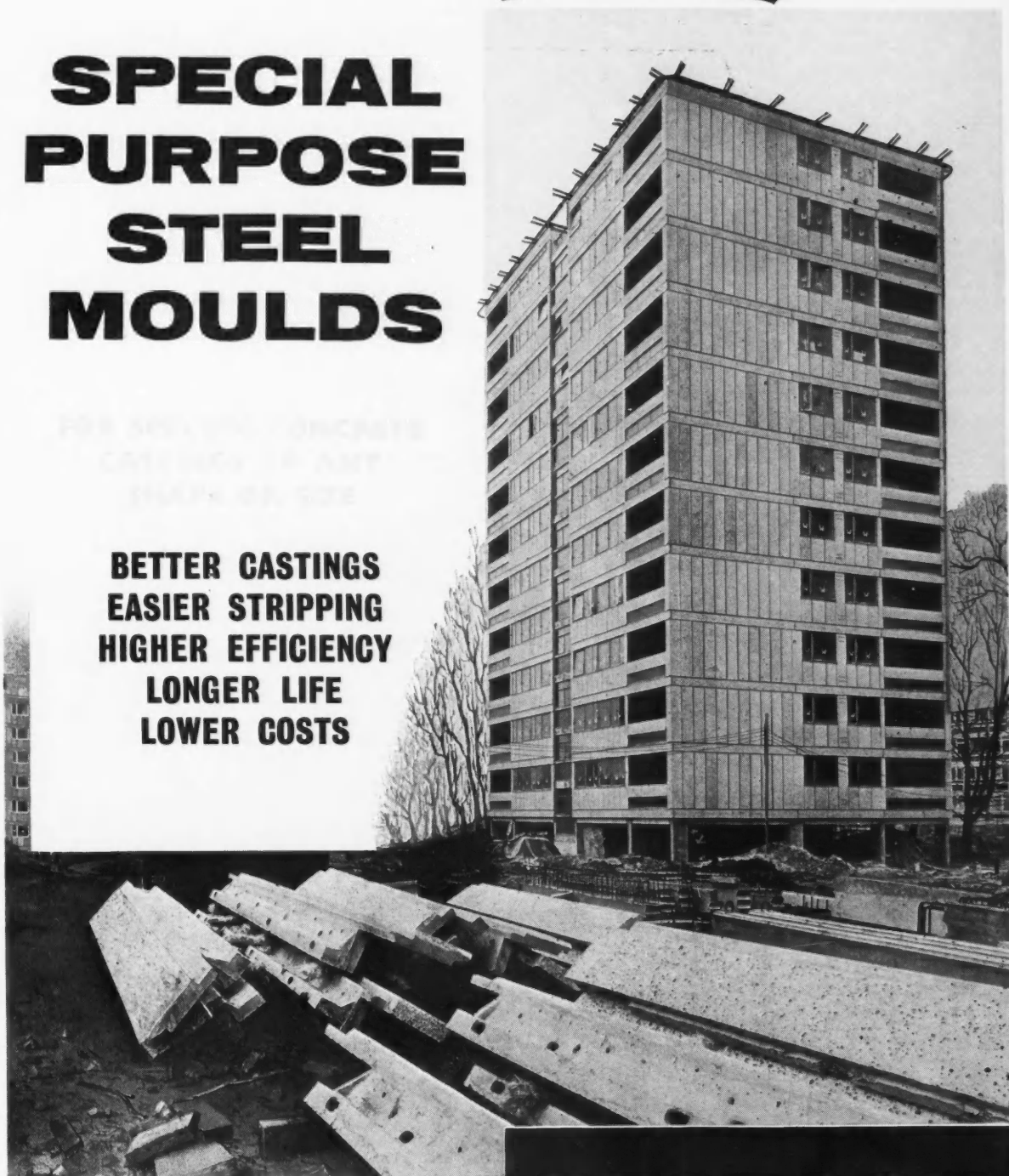
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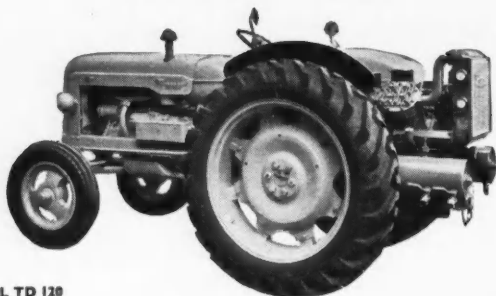
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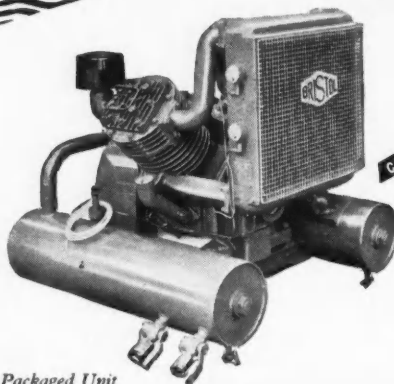
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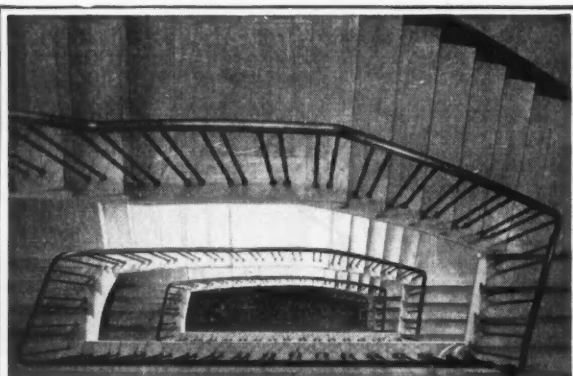
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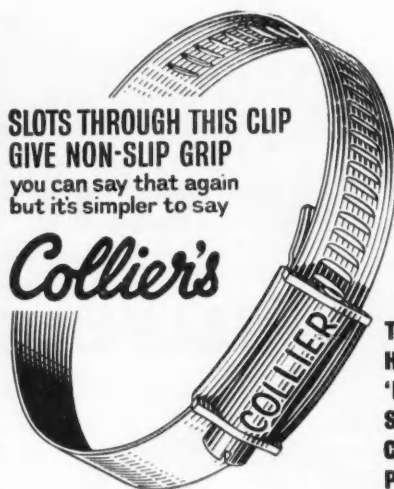
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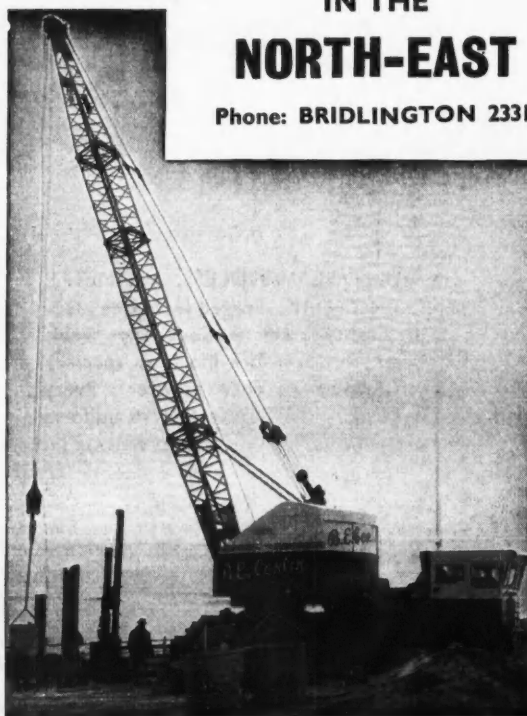
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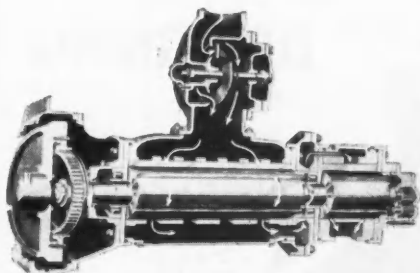
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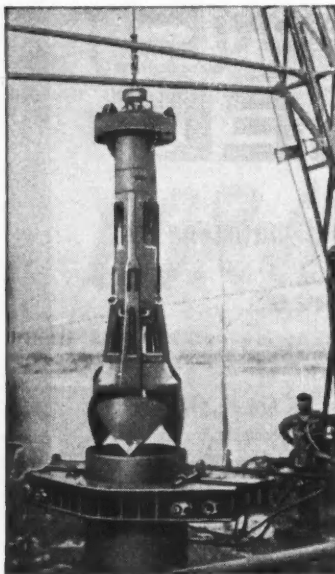


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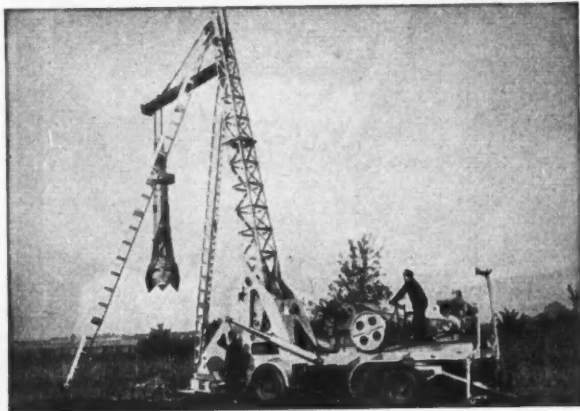


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	16½"	20½"		-	1764 lbs.		18½"	17½"
	20½"	25½"		18½"	1841 lbs.		22½"	21½"
	24½"	29½"		21½"	1962 lbs.		26"	24½"
E-43-2	28½"	33½"	3	24½"	2866 lbs.	243 lbs.	30½"	29½"
	38½"	43½"		32½"	3307 lbs.		39½"	38½"
	47½"	59"		43½"	4410 lbs.		50"	48"



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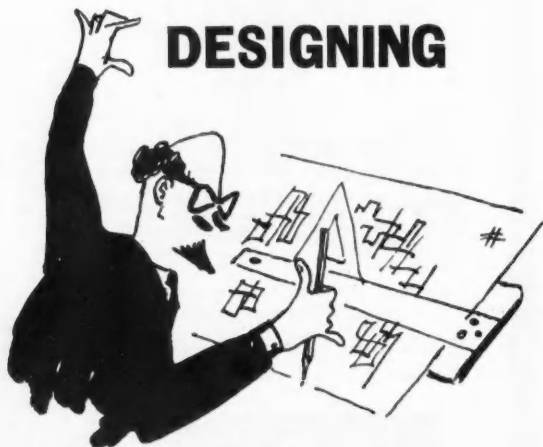
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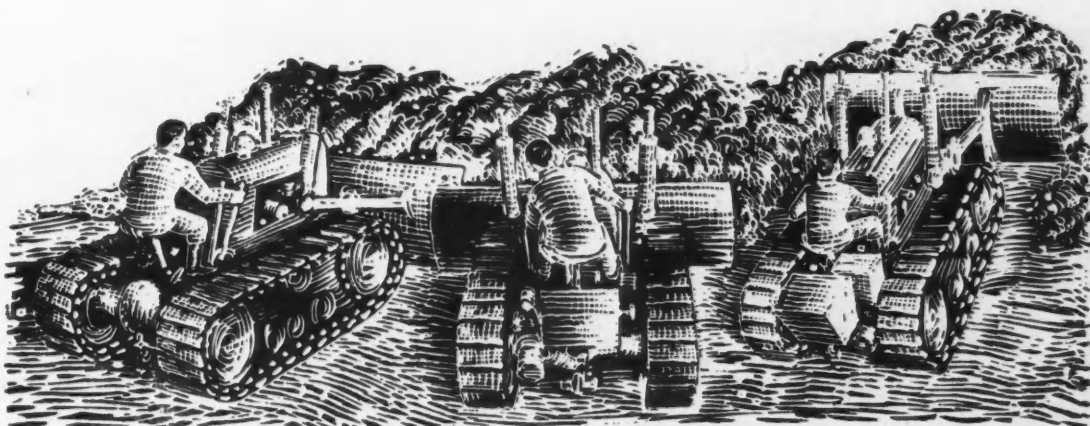
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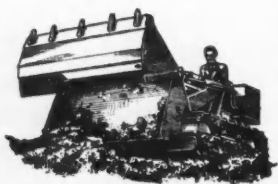
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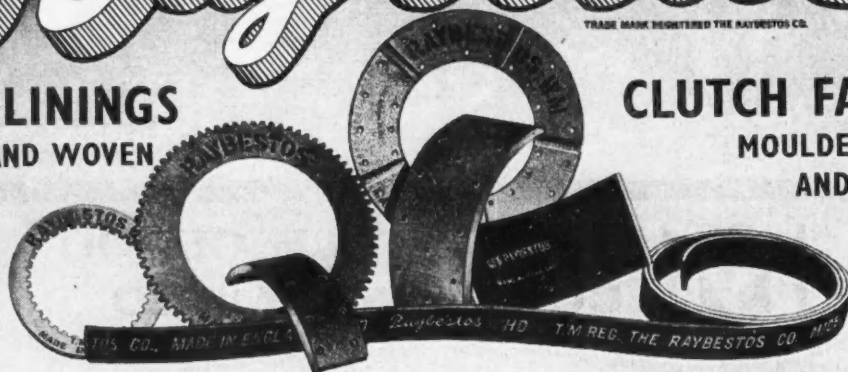
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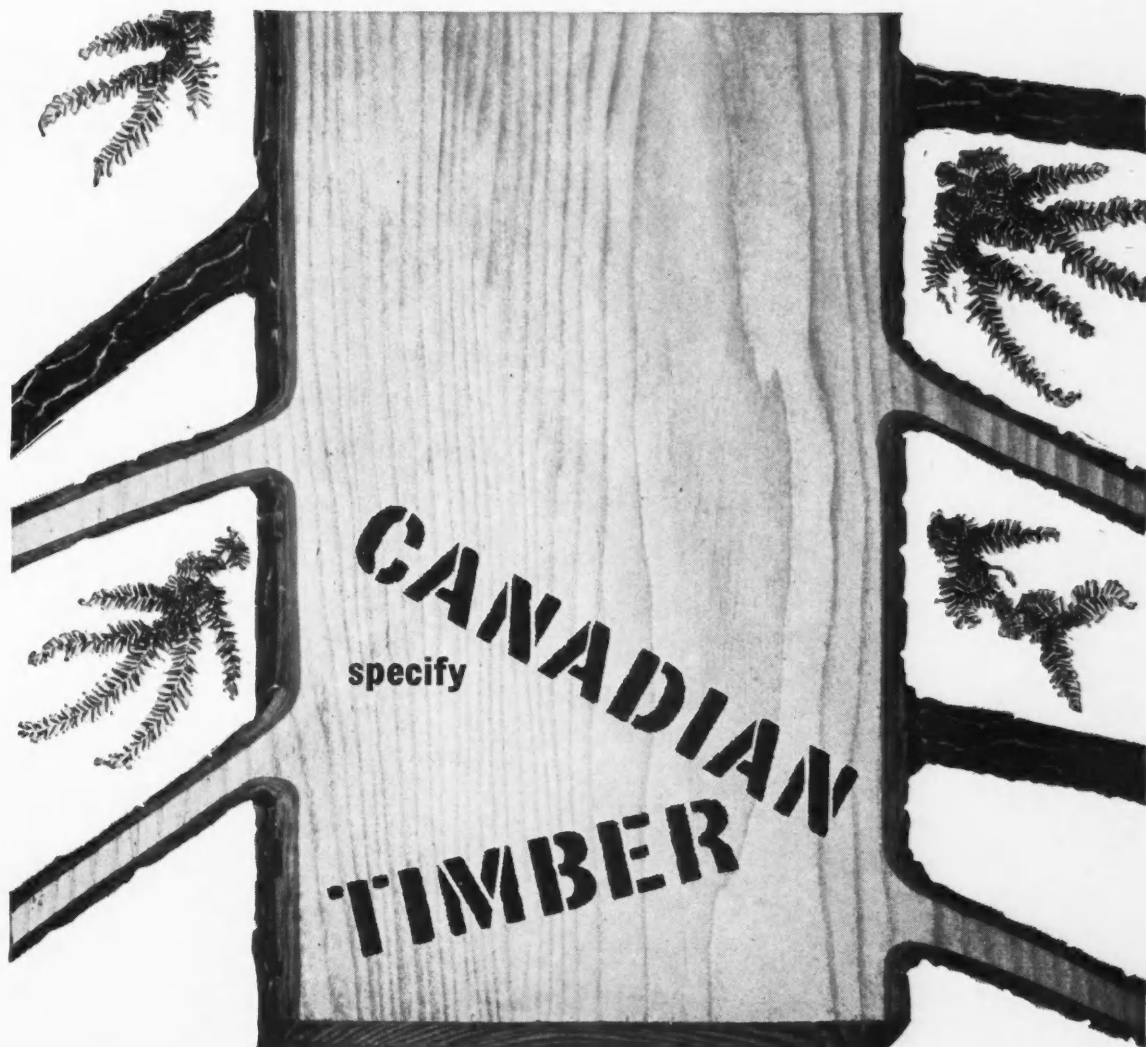
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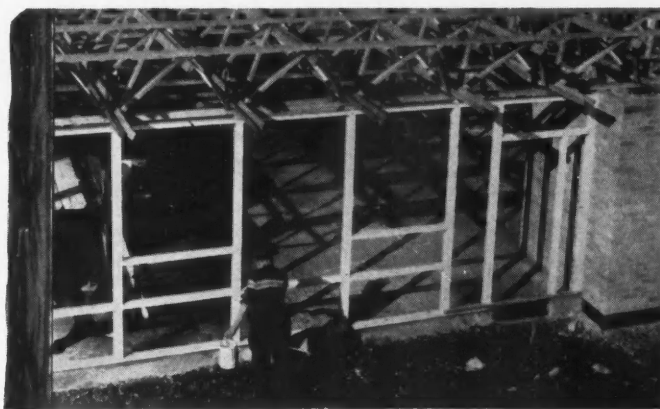
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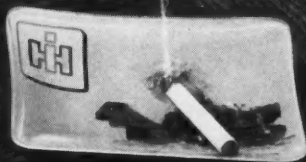
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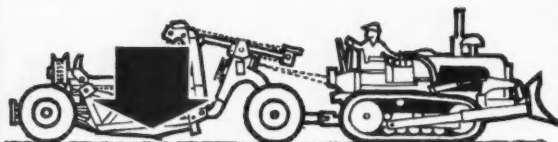
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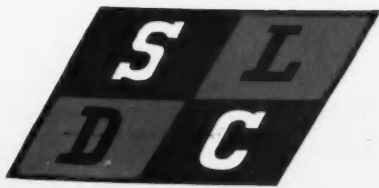
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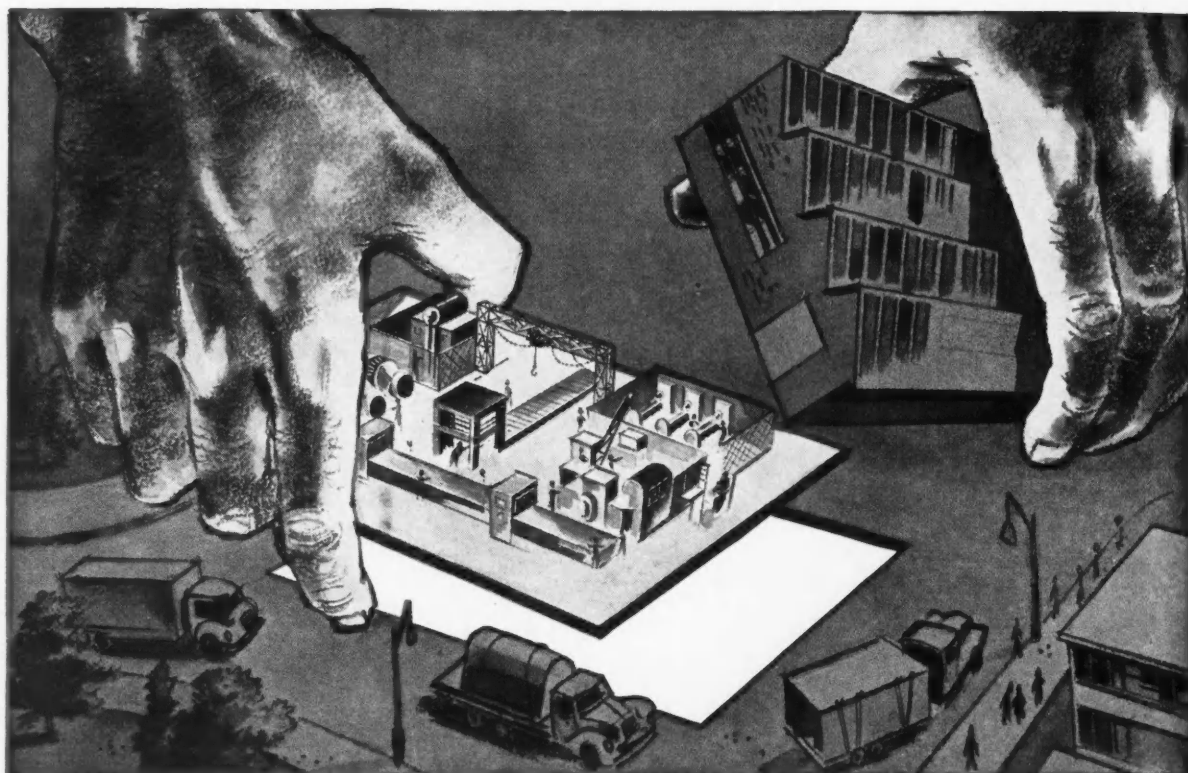


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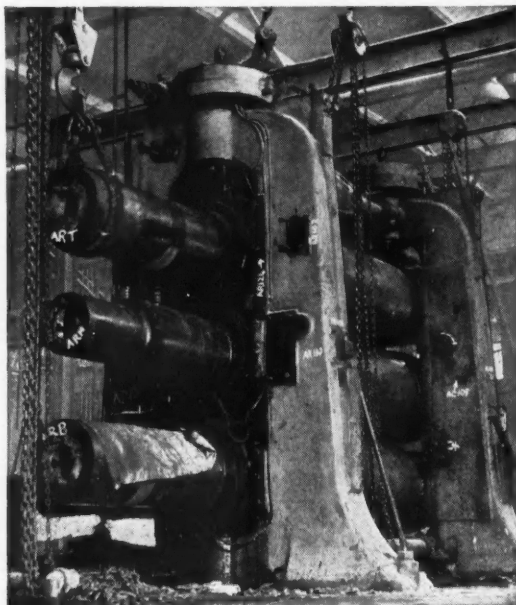
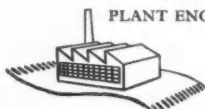
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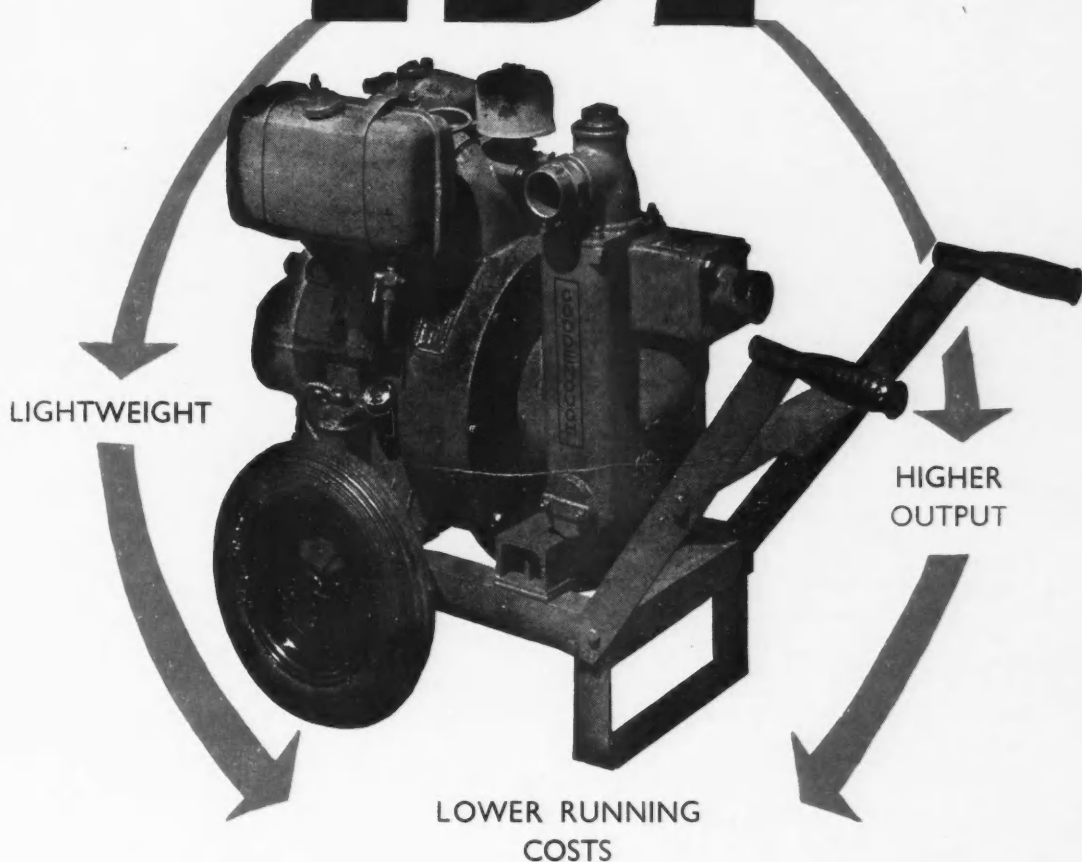
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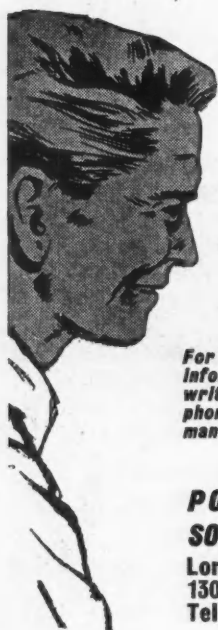
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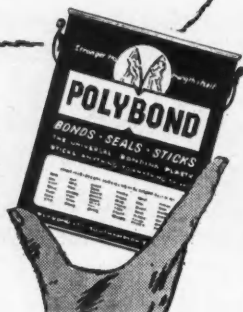
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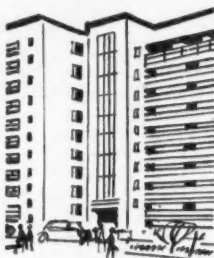
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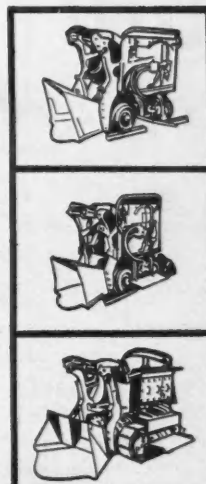
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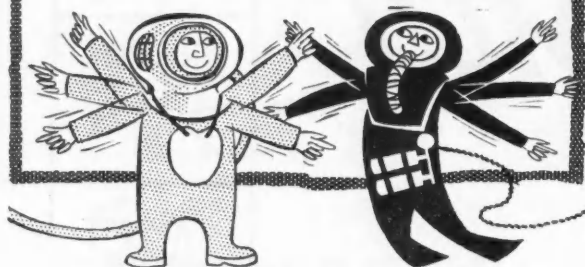
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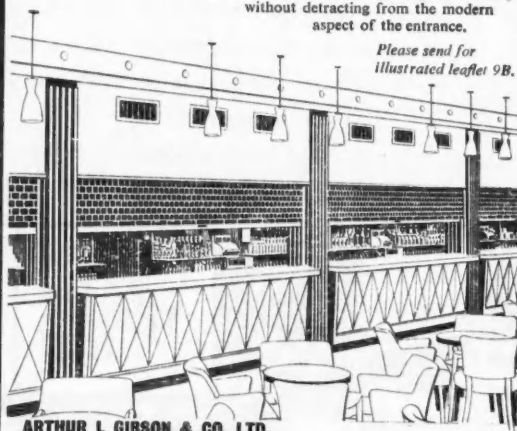
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# CONTRACTORS' GUIDE TO AGGREGATES

## BEDFORDSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**FERRIS SAND AGGREGATES, LTD.**, Northampton Rd., Quarries, Rushden (2354/5). (See Northants.)

**GRAVEL PRODUCTS (HUNTS), LTD.**, Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

**HARTIGAN, G. F. X., LTD.** (See Buckinghamshire.)

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge.** (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)

**WINFIELD, HENRY, LTD.**, Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

## BERKSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**BULL BROS., S. and L., LTD.**, 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

**COFF, HARRY A., LTD.**, Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggins.

**CURTIS, J. AND SONS, LTD.**, Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**GRUNDON, S. (EWELEME), LTD.**, Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3.) All grades washed aggregates. Path hoggins, broken stone, building sand.

**HAINES, H. (WITNEY), LTD.**, Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

**HALL AND CO., LTD.**, Cardiff Road, Reading. (Tel.: 50455.) Pits at Theale. (Tel.: Theale 373.)

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**JANES AND CO., LTD.**, 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

**LONDON BALLAST CO., LTD.** (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

**RALPH OF BASINGSTOKE, LTD.**, 37 Kempscott Lane, Basingstoke, Hants. (Tel.: B5.) Concrete aggregates, building sand, path gravel, hoggins, etc.

## BRECKNOCKSHIRE

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.

## BUCKINGHAMSHIRE

**ASPHALTE CARPETS, LTD.**, 39 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4957/2.) Gerrards Cross 3496.) Manufacturers of all grades of gravel, bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**BICESTER STONE CO., LTD.**, Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

**COFF, HARRY A., LTD.**, Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**DRINKWATER, W. W. (WILLEDEN), LTD.**, Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

**GRUNDON, S. (EWELEME), LTD.**, Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3.) All grades washed aggregates. Path hoggins, broken stone, building sand.

**HAINES, H. (WITNEY), LTD.**, Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

**HALL AND CO., G.**, Brentford, Middlesex. (Tel.: Isleworth 4455.) and Coronation Road, High Wycombe (Tel.: 4360/1.) and at Gerrards Cross. Pits at Wraybury (Middx.) and Iver (Bucks.).

**HARTIGAN, G. F. X., LTD.**, High Street, Newport Pagnell. (Tel.: 126.) Graded and single-sized gravel aggregates to B.S.S. Pits at Newport Pagnell and Broughton, adjoining M.1. dyover.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**JANES AND CO., LTD.**, 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

**LONDON BALLAST CO., LTD.** (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

**MARLOW SAND AND GRAVEL CO., LTD.**, Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

**STUART MACKEY, LTD.**, Gordon Road, High Wycombe (Tel.: High Wycombe 2591/2.)

## CAMBRIDGESHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

## CAMBRIDGESHIRE

**DICKERSON, M. (CONTRACTORS), LTD.**, Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggins, clinker, crushed granite, crushed and graded concrete hardcore, brick rubble, ready-mixed concrete (all grades).

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**MACLAREN BROS. (KENNETT), LTD.**, gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

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## CARDIGANSHIRE

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.

## CHESHIRE

**BUCKTON QUARRY**, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

**CASTLETON SAND AND GRAVEL QUARRIES, LTD.**, Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

**CAWOOD, WHARTON AND CO., LTD.**, Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

**CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD.**, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S. Inquiries to registered office: Market Chambers, Tower Square, Tynestall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

**CROXEN GRAVEL, LTD.**, Cheshire, Stoke-on-Trent. (Tel.: 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

**DUNNING AND SON, LTD.** (See Shropshire.)

**HILTON GRAVEL LTD.**, Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheshire, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

**HULLAND GRAVEL CO., LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

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**WARDLOW LIMESTONE, LTD.**, Caudon Low, N. Staffs. (Tel.: Oakmoor 365.) (For details, see Staffs.)

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**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes: coated limestone to B.S. 902 and 1621 and wet-mix; large output; reliable deliveries.

**HILTON GRAVEL, LTD.**, Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Braileford 116.) And at Willington. (Tel.: Repton 3215.)

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**HULLAND GRAVEL CO., LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

**KEVIN LIME CO., LTD.**, Oakmoor, Staffs. (Tel.: Oakmoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

**SALISBURY AND WOOD, LTD.**, Matlock (Tel.: 272/273.) Limestone and granite, dry or coated gravel and sand, kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone, lightweight aggregates, ashes, red shale.

## DERBYSHIRE

**WARDLOW LIMESTONE, LTD.**, Caudon Low, N. Staffs. (Tel.: Oakmoor 365.) (For details, see Staffs.)

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**BULL BROS., S. and L., LTD.**, 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**DORSET LIMESTONES, LTD.**, Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland caststone aggregates for reconstructed stone. By road and sea.

**HALL AND CO., LTD.**, 8 Commercial Road, Parkstone. (Tel.: 5379.)

**MOREYS (VERWOOD), LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates building sand, hoggins, path gravel.

## ESSEX

**ALFRESDORF SAND AND BALLAST CO., LTD.**, Alresford, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

**BAKER, F. AND E., LTD.**, 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore ashes and bricks.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**BUCBRICKS COMPANY, LTD.**, Sand and Ballast Pits, Martell, Ardleigh, Colchester. (Tel.: A'dleigh 310.) All grades of washed aggregates, sand, asphalt, sand, asphalt, grit, sterilised dry sand accurately graded to buyers' requirements.

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**FERRIS PITS, LTD.**, The Limes Garage, Fencible Road, Barking, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades washed aggregates; plastering and building sands supplied and delivered; also hardcore.

**HALL AND CO., LTD.**, Manor Road, Romford. (Tel.: Romford 4231.) Pits at Upminster, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**HUNNABLE, F. A. AND SON, LTD.**, Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1251.) Graded washed stone, iron, to reject; washed concrete sand and washed soft building sand. Classified sand for asphalt. Ready mixed concrete to all grades. Pits at Braintree, Bocking, Beasley End, Hedingham and Alphamston.

**LEIGH BUILDING SUPPLY CO., LTD.**, Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.

**PETERS AND BARMAN, LTD.**, 309 South Street, Romford. (Tel.: Romford 441.) Washes and crushed gravel, all sizes; sand Pits at Asheldham, Chigwell, St. James, Dagenham, Great Outham, North Ockendon, Roswell, West Thurrock.

**PINCH, L. A. AND A., LTD.**, Upper Rainham Road, Elm Park, Hornchurch, Essex. (Tel.: Hornchurch 4892/3/4.) Haulage, all aggregates and excavation.

**READ, P. T., LTD.**, Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Halstead 2323.) Pits at St. Ives and Gifford, near Halstead.

**STANWAY CONTRACTS, LTD.**, Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

**WIVENHOE SAND, STONE AND GRAVEL CO., LTD.**, Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

## GLOUCESTERSHIRE

**BENGRIY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**COKE, T. F. (CHELTENHAM), LTD.**, 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc.

**CROMHALL QUARRIES, LTD.**, Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfeld 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarmacpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

**GRIFFITHS, A. AND SONS, Churchdown, Gloucester.** (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

**HALL AND CO., LTD.**, Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones and Dolomitic media.

**TAYMAC, LTD.**, Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

Rates for insertion in this GUIDE will be forwarded on application



## CONTRACTORS'

## GUIDE TO AGGREGATES

## GLOUCESTERSHIRE

**WHITECLIFF QUARRIES AND BRICKWORKS, LTD.**, Coleford, Glos. (Tel.: Coleford 3159/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

## HAMPSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)  
**BULL BROS., S. AND L. LTD.**, 126A High Street, Winchester. (Tel.: 2264.) Concrete aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggins, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See Northants.)  
**HALL AND CO., LTD.**, Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Fawley. Gravel aggregate, concreting, plastering and building sand.  
**HASKINS, G. AND SONS**, Queen Street, Emsworth. For washed sand and graded aggregates, path and road gravels, hoggins, clinker, ashes. (Tel.: Emsworth 2271.)  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**MOREYS (VERWOOD), LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.  
**NEW MILTON SAND AND BALLAST CO.**, Lynton Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.  
**PRIVETT, W. G. AND SONS, LTD.**, Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggins, ashes, washed and graded filter media, etc.  
**RALPH OF BASINGSTOKE, LTD.**, 37 Kemphott Lane, Basingstoke, Hants. (Tel.: 65.) Concrete aggregates, building sand, path gravel, hoggins, etc.  
**TWICKENHAM GRAVEL CO., LTD.**, Ship Lane, Farnborough (Tel.: 1126); Sandhurst Road, Yateley (Tel.: 2230).

**WESSEX SAND AND GRAVEL CO.**, 126 Hillside Avenue, Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggins, building sand, etc.  
**HEREFORDSHIRE**  
**BENGRI AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metallising, pitching stone, hardcore and coated macadam.  
**CLEE HILL TRANSPORT AND ROLLING CO., LTD.**, Ludlow, Salop. (Cleehillstone 284.) (See Shrops.)  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.  
**OLD RADNOR TILING LTD.**, Kidlington (Tel.: 421.) Granite and limestone aggregates coated macadam, concrete products.  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.  
**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones, and Dolomitic media.  
**WHITECLIFF QUARRIES AND BRICKWORKS, LTD.**, Coleford, Glos. (Tel.: 3159/9.) (See Gloucestershire.)

## HERTFORDSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMSTEAD 8044/8.) For all road aggregates, kerbs, setts. (See Northants.)  
**EASTWOODS SALES, LTD.**, Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Brouxbourne pit. (Tel.: Hodsdeston 2456.) Producers and distributors of all grades of washed aggregates.  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.  
**HALL AND CO., LTD.**, Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.  
**HARTIGAN, G. F. X. LTD.** (See Buckinghamshire.)  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**TWICKENHAM GRAVEL CO., LTD.**, Eleanor Cross Road, Waltham Cross. (Tel.: 23388.)  
**WEBB, G., CAMBRIDGE**, 35 Magrath Ave., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)  
**WINFIELD HENRY, LTD.**, Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggins, building sand.

## HUNTINGDONSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)  
**FERRERS AND AGGREGATES LTD.**, Northampton Road Quarries, Rushden (2354/8). (See Northants.)  
**GRAVEL PRODUCTS (HUNTS), LTD.**, Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**NENE BARGE AND LIGHTER CO., LTD.**, Market Chambers, Peterborough (Tel.: 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 364/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

## HUNTINGDONSHIRE

**WEBB, G., CAMBRIDGE**, 35 Magrath Ave., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)

## KENT

**BRASTED SAND PITS**, Brasted, Kent (Tel.: 586). London Office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.  
**BROWN BROS. (SITTINGBOURNE), LTD.**, Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hoggins, hardcore, clinker, chalk, etc.  
**CLUBB, J., LTD.**, Dartford, Kent. (Tel.: Dartford 5542.) Pits in North Kent. Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.  
**DIAMOND TREAD CO. (1939), LTD.**, Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners, tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)  
**DIAMOND TREAD CO. (CHART), LTD.**, Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.) (See Sussex.)  
**HALL AND CO., LTD.**, Canning Street, Maidstone. (Tel.: Maidstone 51051.) and at Folkestone and Hayes. Pits at Lonsford, near Larkfield, Riverhead. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.  
**HARRIS, M. P. AND CO., LTD.**, Station Road, Padlock Works, Kent. (Tel.: 395.)  
**TILBURY CONTRACTING AND DREDGING CO., LTD.**, Postley, Maidstone. (Tel.: Maidstone 5542/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt filters, Scotch granite and kerbing.

## LANCASHIRE

**BROOMBYS, LTD.**, Sandside, Milnthorpe (Tel.: 3251/2). Westmorland. (See Westmorland.)  
**BUCKPAT QUARRY**, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.  
**CASTLETON SAND AND GRAVEL QUARRIES, LTD.**, Travers Lane, Castleton, near Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates, pitching stone.  
**CROXIDEN GRAVEL, LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.  
**DUNNING AND SON, LTD.** (See Shropshire.)  
**HARTLEY, JOHN W. LTD.**, Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sand, clean washed natural pebble and crushed gravel aggregates for all construction purposes.  
**HILTON GRAVEL, LTD.**, Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**HULL AND GRAVEL, LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2232/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)  
**KELMAC, LTD.**, Deasdale Road, Preston, Lancashire. (Tel.: Preston 84688/9.) Bituminous, tarred and waterbound macadams. Dry roadstone, sized and graded limestone aggregates. All to B.S. and M. of T. Specifications.  
**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, all sizes and gradings of crushed granite aggregate. Immediate delivery, ex stock.  
**Liverpool and Preston Depots:**  
 Office: 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.)  
 Manchester Depot:  
 Office: Cornbrook Road, Manchester, 15. (Tel.: Trafford Park 633.)  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 2612/3.) (See Staffs. for details.)  
**TRENTHAM GRAY, LTD.**, Lordley Quarries, Willoughborough, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed sand, hoggins, concrete aggregates, concrete sand, plastering sand. Plant capacity: 2,000 tons per day.  
**WITHERS LIMESTONE, LTD.**, Black Lane Quarry, Carnforth (Tel.: Carnforth 327.) Graded stone aggregate to B.S.S., all sizes. Immediate delivery ex stock.  
**X.L. GRANITE (INGLETON), LTD.**, Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

## LEICESTERSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London Office: VIGILANT 2530.) Best Leicester-shire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt railroad delivery.  
**CLIFFE HILL GRANITE CO., LTD.**, Markfield, near Leicester. (Tel.: Markfield 5612/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.  
**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)  
**ENDERBY AND STONEY STATION GRANITE CO., LTD.**, 21 New Walk, Leicester. (Tel.: 20891.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)  
**HILTON GRAVEL, LTD.**, Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**MOUNTSORREL GRANITE CO., LTD.**, 21 New Walk, Leicester. (Tel.: 20891.) Quarries at Mountsorrel, near Loughborough. Lamin. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)  
**WANLIP GRAVELS, LTD.**, Wanlip Road, Syston, Leicestershire. Any size or gradings, scientifically balanced ballast. All to B.S. (Tel.: Syston 2327 and 2797.)  
**WREAKE VALLEY GRAVELS CO., LTD.**, Melton Mowbray (Tel.: Pigwash 205 or head office Melton 2488.) All grades washed aggregates and sand, transit mixed concrete.

## LINCOLNSHIRE

**CONINGSBY SUPPLY CO., LTD.**, Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 2322.) Screened limestone, hardcore, pitching, filling, flint, hoggins. Ex quarries or delivered.  
**DOW-MAC (PRODUCTS), LTD.**, Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)  
**EAST MIDLANDS BUILDERS' SUPPLY CO.**, 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.  
**GIBBONS, F. B. AND SONS, LTD.**, Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Lang-toll, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregates.  
**HARTSHOLME GRAVEL AND SAND CO., LTD.**, Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)  
**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)  
**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)  
**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, "phosphor" ready mixed concrete.  
**TRENTFORD GRAVELS, LTD.**, Head Office: Deansgrove, Grimby. (Tel.: Grimby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

## LONDON

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)  
**BUCKPAT PISCS COMPANY, LTD.**, 57 Piazza Chambers, Covent Garden, London, W.C.2. (Tel.: Covent Garden 0534.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.  
**COX, H. AND SONS, LTD.**, 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, N.W.3. (Tel.: HAMSTEAD 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerbs and setts, felspar quartz and other minerals by road or rail, ex London stock.  
**DORSET LESTIMESONS, LTD.**, Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)  
**DRINKWATER, W. W. (WILLESDEN), LTD.**, Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLADSTONE 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.  
**GREENHAM SAND AND BALLAST CO., LTD.**, Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.  
**HALL AND CO., LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.  
**HARTIGAN, G. F. X. LTD.**, Washed sharp sand to B.S.S. 882. (See Buckinghamshire.)  
**KEEN, W. J. AND SONS**, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.  
**LONDON BALLAST CO., LTD.** (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.  
**READ, P. T. LTD.**, Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)  
**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

## MERIONETHSHIRE

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.

## MIDDLESEX

**CROSS, GEO. C. AND CO., LTD.**, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.  
**DRINKWATER, W. W. (WILLESDEN), LTD.**, Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.  
**GREENHAM SAND AND BALLAST CO., LTD.**, Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.  
**GRUNDON, S.**, 100/104 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 36511/2/3.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.  
**HALL AND CO., LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at Ashford and Brentford. Pits: Bedford and Shepperton. Gravel aggregates, concreting, plastering and building sand.  
**LONDON BALLAST CO., LTD.** (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.  
**TWICKENHAM GRAVEL CO., LTD.**, Feltham Hill Road, Feltham. (Tel.: Feltham 2630.)  
**READ, P. T. LTD.**, Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Edmonston, Gravel Pit, Montagu Road, N.9. (Tel.: Shoreditch 9128/9), and Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.)  
**STUART MACAY, LTD.**, Gordon Rd., High Wycombe. (Tel.: High Wycombe 2591/2.)



# CONTRACTORS' GUIDE TO AGGREGATES

## MID-WALES

**BENGRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 421.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

## MONMOUTHSHIRE

**MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD.**, Head Office: 38 Chestnut Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

**WHITEGLIFF QUARRIES AND BRICKWORKS, LTD.**, Cleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

## MONTGOMERYSHIRE

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

## NORFOLK

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**JOHNSON, P. C. H., LTD.**, Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Cony Weston 12.) Pits at St. Ives and Knettishall, near Thetford.

**SNETTERTON STONE QUARRIES, LTD.**, Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.

**THORPE GRAVEL PITS, LTD.**, Harvey Lane, Norwich. (Tel.: Norwich 3324/3.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

## NORTHAMPTONSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**BICESTER STONE CO., LTD.**, Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

**BILLING GRAVEL CO., LTD.**, Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

**BRAYBROOK, E. W., LTD.**, Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

**DOW-MAC (PRODUCTS), LTD.**, Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ash, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.

**FERRERS AND AGGREGATES, LTD.**, Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

**GIBBONS, F. B., AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**KETTON STONE CO. (Prop. Andrew's Garage), Ketton**, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

**MACKANESS, A. J., LTD.**, Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

**NENE BARGE AND LIGHTER CO., LTD.**, Market Chambers, Peterborough. (Tel.: 5534/5.) and Ship End Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

**NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD.**, R21, Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langthorpe, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

**STORTON, F. E., LTD.**, Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

## NORTH WALES

**CAWOOD, WHARTON AND CO., LTD.**, Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

**CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD.**, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone; dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

**ENSTON BROS.**, Llwyn Isaf Quarry, Clynogfawr, Caernarvon. (Tel.: Clynogfawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite for our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

**RUTHIN AND DENBIGH TARMACADAM CO., LTD.** (a member of the Lunt, Comley and Pitt Group), Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., Gazette Buildings, 169 Corporation Street, Birmingham (Tel.: Central 7408), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—8 lines).

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

## NOTTINGHAMSHIRE

**AIZLEWOOD, DOUGLAS E.**, Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone, all grades of washed gravel and sand.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**GLEN QUARRIES, LTD.**, Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

**GUNTHORPE GRAVELS (1958), LTD.** (Tel.: Nottingham 77357; and Works: Lowdham 2131.) An associate company of T. C. Campbell, Ltd. All grades washed gravel and sand to B.S.S.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme Pierrepont, Colwick, Bleasby and Newark. Other quarries throughout the county—deliveries in 21 counties. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Combined plant capacity 20,000 tons per day.

**NEWARK GRAVEL AND CONCRETE CO., LTD.**, Grove St., New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

**NORTH NOTTS. GRAVEL CO., LTD.**, Belmoor, Retford, Notts. (See Yorkshire.)

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

## OXFORDSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**BENGRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**BICESTER STONE CO., LTD.**, Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

**CURTIS, J. AND SONS, LTD.**, Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates, Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

**DANGERFIELD, F. J., AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

**GRUNDON, S. (EWELEMB), LTD.**, Ewelemb, Oxon. (Tel.: Ewelemb 20 and 37.) London Office: (Tel.: Uxbridge 365/2/3.) All grades washed aggregates, Path hoggins, broken stone, building sand.

**HALL AND CO., LTD.**, Cardiff Road, Reading. (Tel.: 50458.)

**HAINES, H. (WITNEY), LTD.**, Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**SNETTERTON STONE QUARRIES, LTD.**, Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 208/9.) Roadstone, Cotswold building and walling stone.

## RADNORSHIRE

**BENGRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**CLEE HILL TRANSPORT AND ROLLING CO., LTD.**, Ludlow, Salop. (Cleehillstone 284.) (See Shrops.)

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 421.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

## RUTLAND

**GIBBONS, F. B., AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

## RUTLAND

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

**KETTON STONE CO. (Prop. Andrew's Garage), Ketton**, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langthorpe, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

## SHROPSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes; coated limestone to B.S. 802 and 1621 and wetmix; large output; reliable deliveries.

**BENGRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**CLEE HILL TRANSPORT AND ROLLING CO., LTD.**, Ludlow, Salop. (Tel.: Cleehillstone 284.) Granite stone, tarmac, chippings, filter media, setts, limestone, crushed and walling stone, gravel, sand, hardcore and ashes.

**DORRINGTON SAND AND GRAVEL QUARRIES**, near Shrewsbury. (Tel.: Dorington 276.) Supplies of ready mixed concrete, building sand, washed sand, washed and crushed gravel.

**DUNNING AND SON, LTD.**, Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Kingston. (Tel. 421.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

**TRENTHAM GRAVEL CO., LTD.**, Lonsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

## SOMERSET

**ASHAM QUARRY CO., LTD.**, Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

**DANGERFIELD, F. J., & CO., LTD.**, 216A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**HALL AND CO., LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**WAINWRIGHT, JOHN, AND CO., LTD.**, Shepton Mallet, Somerset. (Tel.: Shepton Mallet 256/7.) All grades of washed sand, concrete aggregates, filtering media, building blocks and slabs.

## SOUTH SCOTLAND

**ESK MANUFACTURING CO., LTD.**, Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

## SOUTH WALES

**HALL AND CO., LTD.**, 34 High Street, Narberth. (Tel. 74.)

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates, crushed granite, broken stone. (See London.) (Tel.: Bridgend 3786.) Coated stone also available.

**SESSIONS AND SONS, LTD.**, West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

**SOUTH WALES SAND AND GRAVEL CO., LTD.**, Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners slag, hardcore, ash, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Britton Ferry, Swansea, Llanelli.

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**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes; coated limestone to B.S. 802 and 1621 and wetmix; large output; reliable deliveries.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

**CRAWFORD GRAVEL, LTD.**, Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity 2,000 tons per day.

**DUNNING AND SON, LTD.**, Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/323.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

**HILTON GRAVEL, LTD.**, Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).



# CONTRACTORS' GUIDE TO AGGREGATES

## STAFFORDSHIRE

**HULLAND GRAVEL CO., LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

**KEVIN LIME CO., LTD.**, Oakmoor, Staffs. (Tel.: Oakmoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

**RUGELEY GRAVEL CO., LTD.**, Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

**SHIRE OAK GRAVELS, LTD.**, Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alminston Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggins.

**TRENTHAM GRAVEL CO., LTD.**, Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

**WARDLOW LIMESTONE, LTD.**, Caudon Low, N. Staffs. (Tel.: Oakmoor 366.) Graded limestone for all purposes. Ground limestone.

**WINDMILL SAND AND GRAVEL QUARRIES, LTD.**, Cannock Road, Wolverhampton. (Tel.: 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

## SUFFOLK

**ALRESFORD SAND AND BALLAST CO., LTD.**, Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand; also hoggins.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGLANT 2530.) (For details, see Leics.)

**DICKERSON, M. (CONTRACTORS), LTD.**, Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) (See Cambs.)

**HALL AND CO., LTD.**, West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

**MACLAREN BROS. (KENNETT), LTD.**, Station Road, Kennett, Cambs. (Kentford 333/4.) (See Cambs.)

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4, Coney Weston 12 and Hailstead 2323.) Pits at St. Ives, Knettishall, near Thetford, and Gosfield, near Hailstead.

**THORPE GRAVEL PITS, LTD.**, Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

**WEBB, G., CAMBRIDGE**, 53 Magrath Av., Cambridge. (Tel.: 59966, 53969, 50353 (night).) (See Cambs.)

## SURREY

**"OFF. HARRY A., LTD.**, Buckhurst Hill, Cheshide, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**EASTWOODS SALES, LTD.**, Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, nr. Egham. (Tel.: Egham 3121.) Runfold Sand and Ballast Pit, Runfold, nr. Farnham, Surrey. (Tel.: Runfold 2020.) Producers and distributors of all grades of washed aggregates.

**HALL AND CO., LTD.**, Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Redhill. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

**HARRIS, M. P., AND CO., LTD.**, Kingston Road, Leatherhead, Surrey. (Tel.: 3497.) (See Sussex.)

**JANES AND CO., LTD.**, 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulking and bulk excavation. (Tel.: Slough 20361/2/3.)

**LONDON BALLAST CO., LTD.**, (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

## SURREY

**MARCO (AGGREGATES), LTD.**, Pit: Norlands Lane, Thorpe, near Egham. (Tel.: Chertsey 3401.) Producers and distributors of high grade washed sand, shingle, ballast, etc.

**MARCO (CROYDON), LTD.**, Hampton Road, West Croydon. (Tel.: Thornton Heath 4236/7/8.) All building and road aggregates.

**TWICKENHAM GRAVEL CO., LTD.**, Government Road, Ash Vale. (Tel.: 2349.)

**WELLS, L., AND SON, LTD.**, Builders' Merchants, Earlsdon Road, Leatherhead. (Tel. 3018/9.) Sand aggregates, hardcore, ashes, cement. Clinker block manufacturers.

**WINTON, WM. R., LTD.**, Send, Woking. (Tel.: Ripley 2454/5.) All grades sand, shingle, ballast, hoggins and ashes. Clinker block manufacturers.

## SUSSEX

**AVANN, F.**, Cavendish Avenue, Eastbourne. (Tel. 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, etc., supplied.

**HALL AND CO., LTD.**, 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumles, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portslade. Gravel aggregates, concreting, plastering and building sand. Surecrete precision-mixed concrete.

**HARRIS, M. P., AND CO., LTD.**, West Station Goods Yard, Bexhill. (Tel.: 61.) Cavendish Place, Eastbourne. (Tel. 3800.) Domillon Road, Worthing. (Tel. 8822.) Whitbread Lane, Northiam. (Tel. 2211.) Station Goods Yard, Haywards Heath. (Tel. 1750.) Crawley Road, Horsham. (Tel. 3366.) The Hornet, Chichester. (Tel. 4181.) All grades aggregates, hardcore, clinker, ashes, etc.

**WRIGHT, C., AND SONS, (BYTON), LTD.**, 19 Bristol Gardens, Brighton. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

## WARWICKSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output reliable deliveries.

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

**HALL AND CO., LTD.**, 188 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 356.) Gravel aggregates, concreting, plastering, building sand.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)

**JUDKINS, LTD.**, Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411-10 lines.) All sizes washed granite aggregate, tarrad and bituminous macadam. Slab mix a specialty.

**KEVIN LIME CO., LTD.**, Oakmoor, Staffs. (Tel.: Oakmoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, red and golden brown. (See Glos.)

**SHIRE OAK GRAVELS, LTD.**, (See Staffordshire.)

**WARDLOW LIMESTONE, LTD.**, Caudon Low, N. Staffs. (Tel.: Oakmoor 366.) (For details, see Staffs.)

**WARWICKSHIRE QUARRIES, LTD.**, Bedworth Road, Nuneaton. (Tel.: Coventry 67821.) Red shale, screened for roads, car parks, sports grounds, tennis courts, etc., attractive colour.

## WESTMORLAND

**BROOMBYS, LTD.**, Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel sand, limestone, granite chippings, pitching, tarmacadam, rockery stone, etc.

**ESK MANUFACTURING CO., LTD.**, Carlisle. (Tel.: Carlisle 2-4941.) (For details, see Cumberland.)

## WILTSHIRE

**BULL BROS., S. AND L., LTD.**, 126A High Street, Winchester. (Tel.: Hamptons 231.)

**COKE, T. F. (CHELTENHAM), LTD.**, 267 Gloucester Road, Cheltenham. (Tel.: 4717/4874.) (See Glos.)

**DANGERFIELD, F. J., AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

## WILTSHIRE

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)

**MOREYS (VERWOOD), LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.

**TAYMAC, LTD.**, Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391-5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

## WORCESTERSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621, and wet-mix; large output; reliable deliveries.

**BENGRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**CLEE HILL TRANSPORT AND ROLLING CO., LTD.**, Ludlow, Salop. (Cleehillstone 284.) (See Shrops.)

**DUNNING AND SON, LTD.**, (See Shropshire.)

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)

**KEVIN LIME CO., LTD.**, Oakmoor, Staffs. (Tel.: Oakmoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

**NASH ROCKS, STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Kington, Tel. 421.) (See Herefordshire.)

**SHAKEMANTLE QUARRY CO., LTD.**, Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

## YORKSHIRE

**AIZLEWOOD, DOUGLAS E.**, Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone; all grades of washed gravel and sands.

**DENNIFF, ALAN S., LTD.**, Kiveton Park, nr. Sheffield. (Tel.: Kiveton 446/7/8.) Truck-mixed and pre-mixed concrete, washed and crushed gravel, concreting sand, bldg. sand, crushed and graded stone.

**GLEN QUARRIES, LTD.**, Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex quarry or delivered.

**HOVERINGHAM GRAVELS, LTD.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)

**NORTH NOTTS. GRAVEL CO., LTD.**, Bellmoor, Retford, Notts. (Tel.: Retford 2219-3 lines.) Concrete aggregates and sands, granite chippings, building sands. Quarries at Bellmoor and Lound, near Retford and Workop. Truck-mixed concrete plants at Retford and Workop. Notts., Ossett, Yorks., and Wath-on-Dearne, Yorks.

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

**STANLEY FERRY GRAVEL CO., LTD.**, Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 26361.) Washed, crushed and natural graded sand and gravel. Supplies to specification, large daily production. Centre of Yorks. West Riding market. Pit: Wakefield.

**WELBECK SAND AND GRAVEL CO.**, Parkhill, Wakefield. (Wakefield 4454.) Washed sand and gravel.

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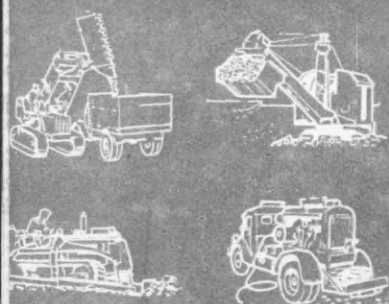
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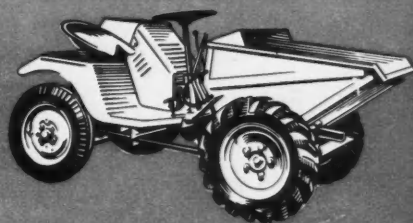
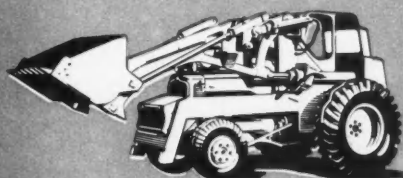
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